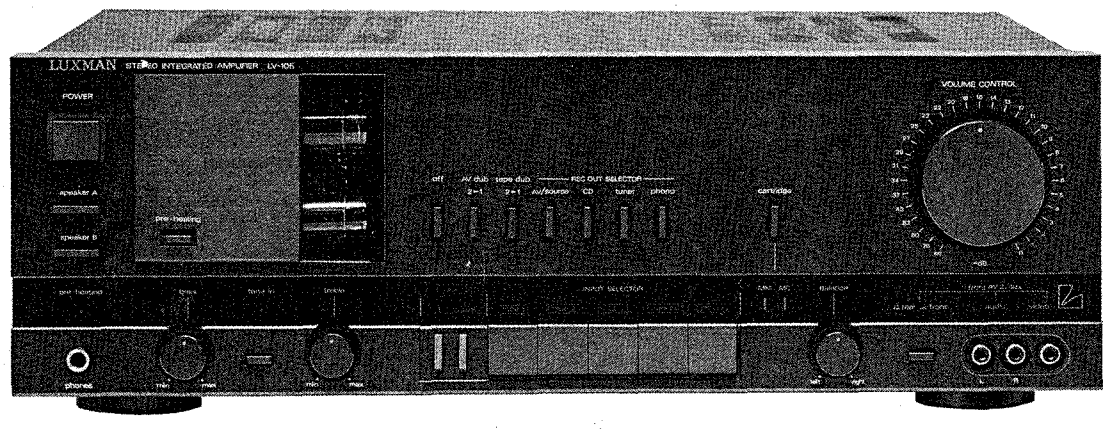
SERVICE MANUAL

Stereo Integrated Amplifier

LV-105



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Specifications

Power-Output . . . . . 70W (0.25% THD at 20 ∿ 20 kHz)
Head-phones Output . . . . . (80W/8 ohm — 1 kHz) 425mV ±10%
Input Sensitivity (1 kHz) . . . . . TUNER: 150mV ±10%, CD: 150mV ±10%,
TAPE-1, -2: 150mV ±10%, AV-1, -2: 150mV ±10%,
PHONE (MM): 2.3mV ±10%, PHONE (MC): 130μV ±10%
Input Impedance (1 kHz) . . . . . TUNER: 45K ohm ±10%, CD: 45K ohm ±10%,
TAPE-1, -2: 45K ohm ±10%, AV-1, -2: 45K ohm ±10%,
PHONE (MM): 47K ohm ±10%, PHONE (MC): 100 ohm ±10%
Frequency Response . . . . . TUNER: 10 — 100 kHz +0.6 —2.0 dB, CD: 10 — 100 kHz +0.6 —2.0 dB,
TAPE-1, -2: 10 — 100 kHz +0.6 —2.0 dB, PHONE (MM/MC): 100 Hz ±0.5 dB,
AV-1, 2 (audio): 10 — 100 kHz +0.6 —2.0 dB, AV-1, 2 (video): 10 — 6 MHz
Signal to Noise Ratio (A) . . . . . TUNER: 86 dB, CD: 86 dB, TAPE-1, -2: 86 dB,
AV-1, -2: 86 dB, PHONE (MM): 70 dB, PHONE (MC): 46 dB
Power Supply . . . . . 220V, 50 Hz (For SK, SH model only), 100V, 60 Hz (For JK model only),
240V, 50 Hz (For SG model only), 120V, 60 Hz (For EZ model only)
Power Consumption. 250W
Semiconductors . . . . . 3 ICs, 39 Transistors, 10 FETs, 12 Zener Diodes, 32 Diodes, 2 Vacuum Tubes
Dimension . . . . . 438(W) x 148(H) x 353(D) mm
Weight. . . . . 10.2 kg

Parts Locations and Disassembly Instructions

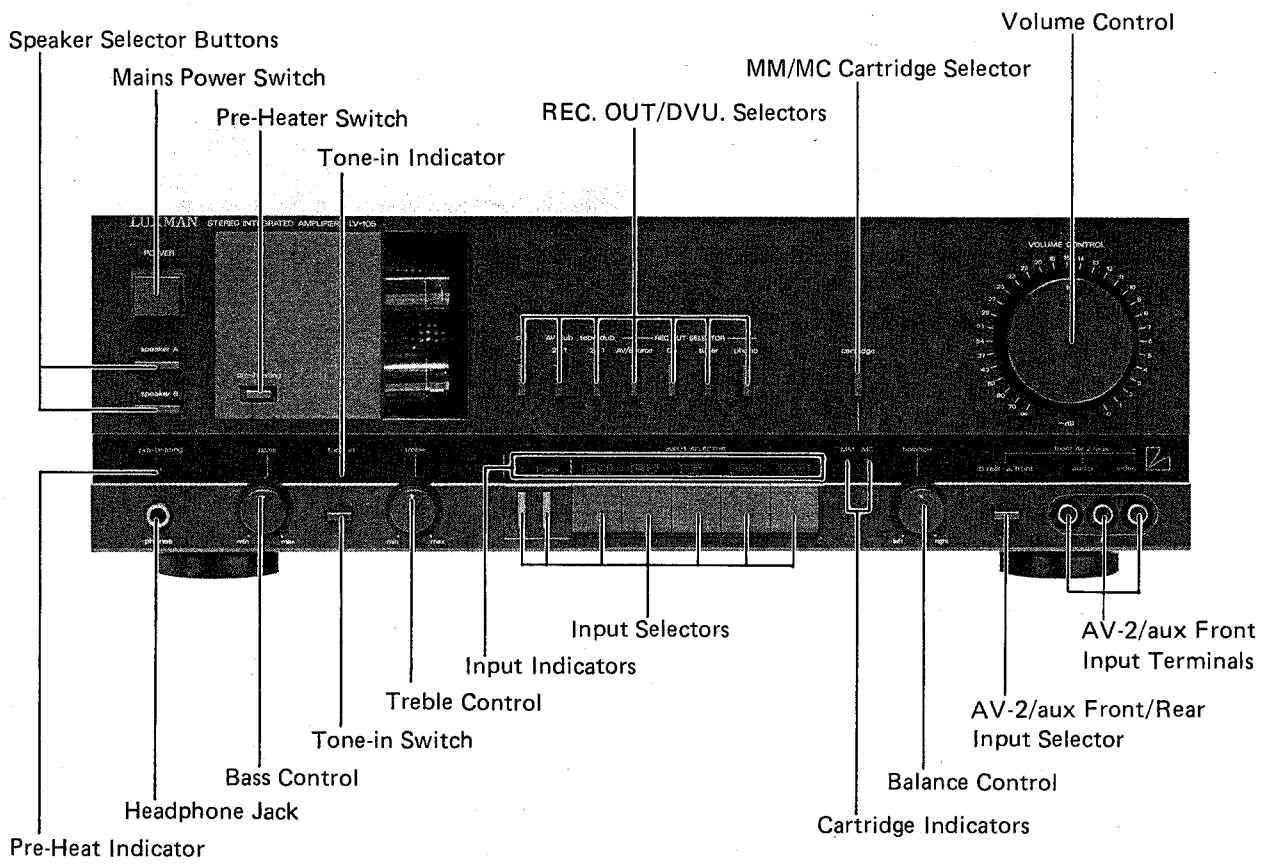


Figure 1

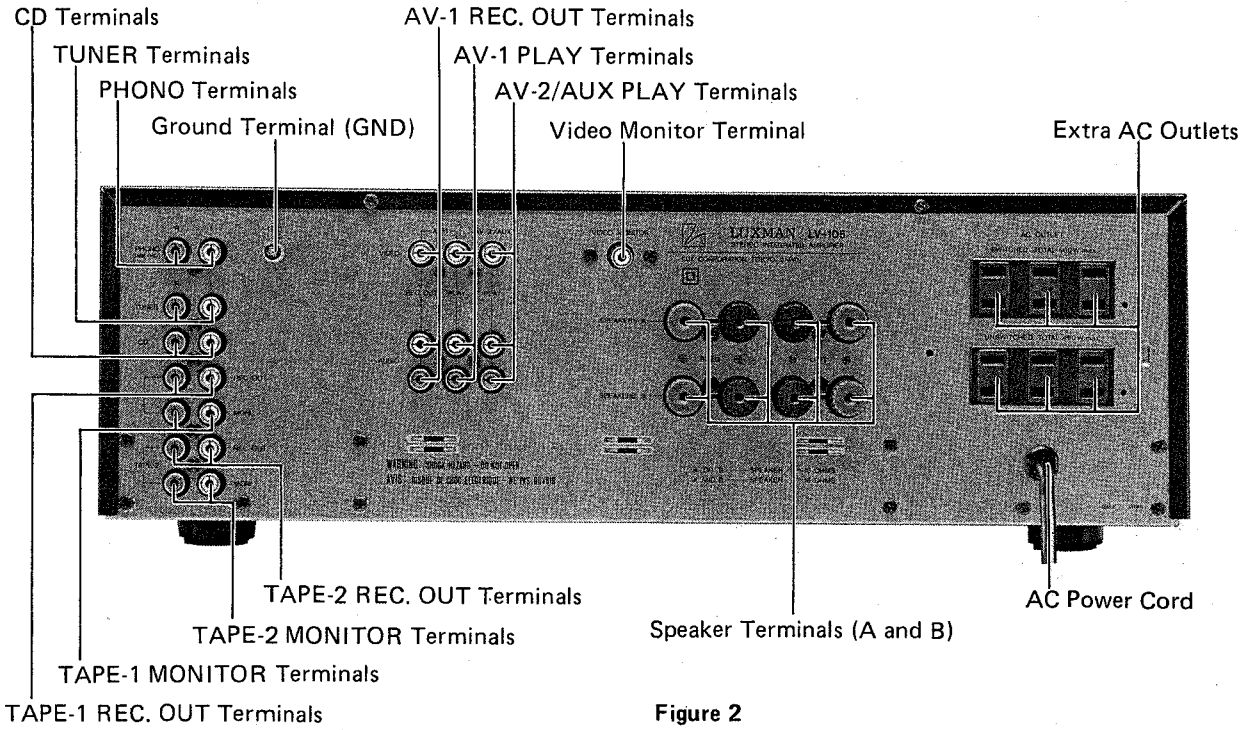


Figure 2

1. Removal of Top Cover

(1) Remove six screws marked " ○ " as shown in Figure 3 and 4.

(2) Pull out the Top cover in the direction of the arrow as shown in Figure 3.

2. Removal of Front Panel

(1) Remove the volume control knob as shown in Figure 3.

(2) Remove three screws marked " △ " as shown in Figure 5.

(3) Front panel can be removed by pulling it forward. But when the panel is engaged tightly, pull the panel end little by little, and the panel will be removed easily.

3. Removal of Front Escutcheon

(1) After removal of Front Panel, remove three control knobs (bass, treble, balance), remove two hooks (a), and remove six screws marked " ※ " as shown in Figure 3, 4 and 6.

(2) Disconnect all wires from the Front Escutcheon.

(3) The Front Escutcheon with Function, Tone and Headphone P.C. Boards can be removed completely.

4. Removal of Function P.C. Board

(1) After removal of Front Escutcheon, remove four hooks (b) as shown in Figure 7.

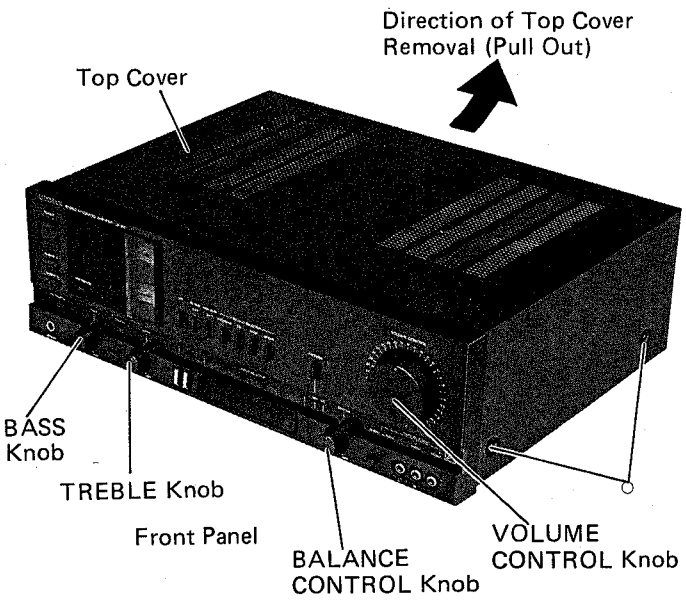


Figure 3

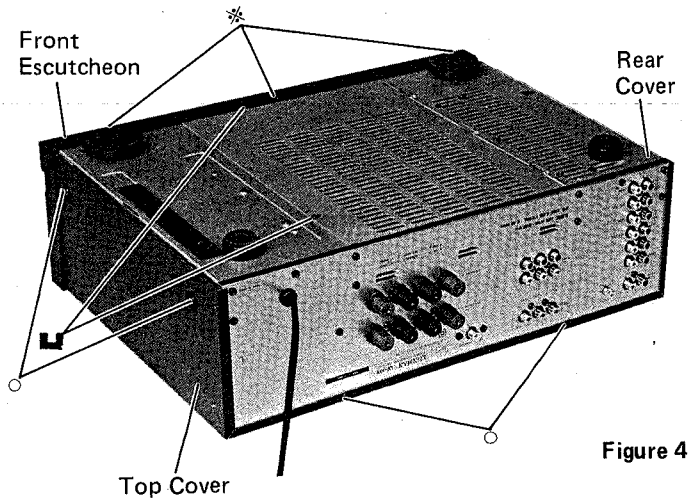


Figure 4

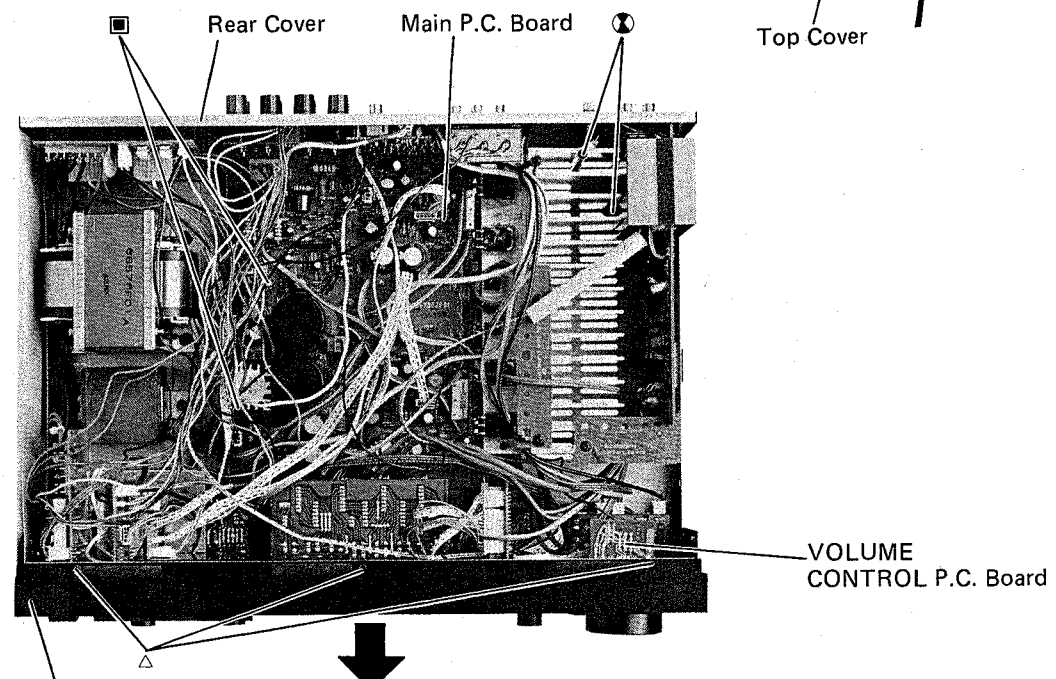


Figure 5

5. Removal of Tone P.C. Board

(1) After removal of Front Escutcheon, remove two hooks (c) as shown in Figure 7.

6. Removal of Headphone P.C. Board

(1) After removal of Front Escutcheon, remove two screws marked "◎" as shown in Figure 7.

7. Removal of Front Chassis

(1) After removal of Front Escutcheon, remove seven screws marked "☆" as shown in Figure 8.

(2) Remove Front Chassis upward and then proceed to items 7-1 ∿ 7-9.

7-1. Removal of Speaker Switch P.C. Board

(1) Remove three knobs (A) and remove four screws marked "▲" as shown in Figure 6.

(2) Disconnect all wires from the Speaker Switch P.C. Board.

7-2. Removal of Heat-UP Switch P.C. Board

(1) Remove one knob (B) and remove two screws marked "凸" as shown in Figure 6.

(2) Disconnect all wires from the Heat up Switch P.C. Board.

7-3. Removal of Tube P.C. Board

(1) Remove two screws marked "◪" as shown in Figure 9.

(2) Remove one hook (d) as shown in Figure 6.

(3) Disconnect all wires from the Tube P.C. Board.

7-4. Removal of Rec Selector P.C. Board

(1) Remove two screws marked "■" and remove seven knobs (c) as shown in Figure 6.

(2) Disconnect all wires from the Rec Selector P.C. Board.

7-5. Removal of MM/MC P.C. Board

(1) Remove one knob (D) and remove two screws marked "▣" as shown in Figure 6.

(2) Disconnect all wires from the MM/MC P.C. Board.

7-6. Removal of Volume Control P.C. Board

(1) Remove one nut (A) and one washer (A) as shown in Figure 8.

(2) Disconnect all wires from the Volume Control P.C. Board.

7-7. Removal of Tone Control P.C. Board

(1) Remove one knob (E) and six screws marked "◐" as shown in Figure 8.

(2) Remove two nuts (B) as shown in Figure 8.

(3) Disconnect all wires from the Tone Control P.C. Board.

7-8. Removal of Function P.C. Board

(1) Remove seven knobs (F) and remove four screws marked "●" as shown in Figure 8.

(2) Remove one nut (c) as shown in Figure 8.

(3) Disconnect all wires from the Function P.C. Board.

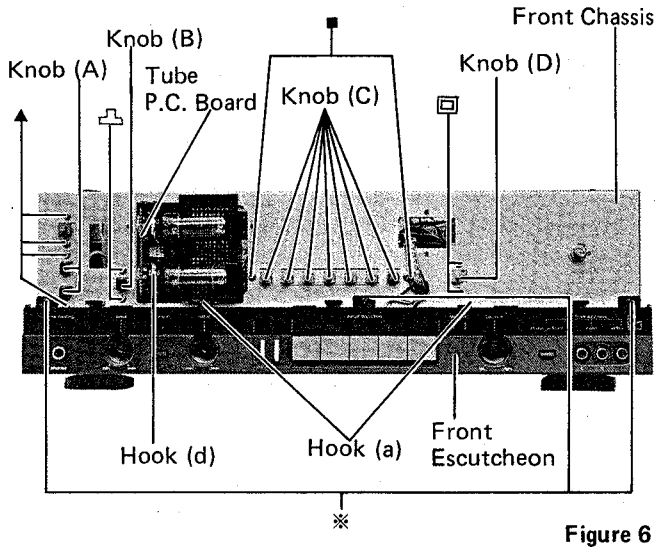


Figure 6

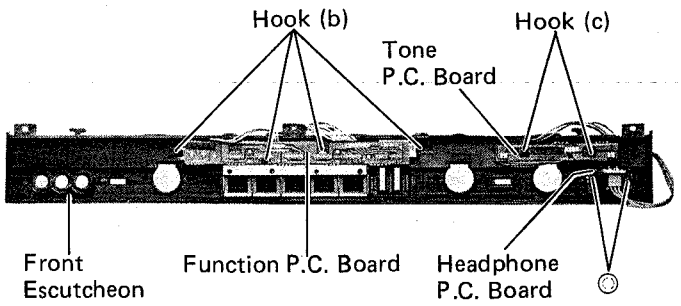


Figure 7

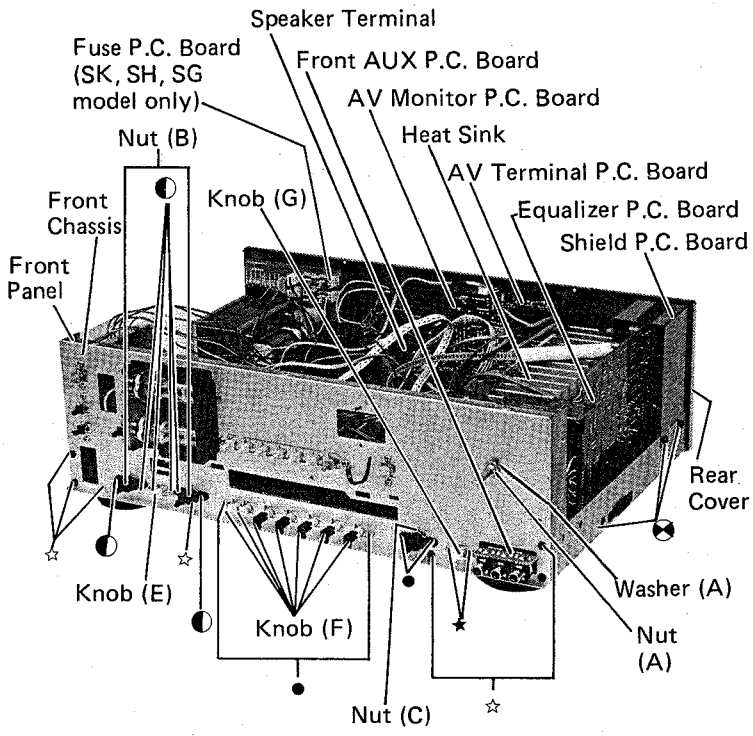


Figure 8

7-9. Removal of Front Aux P.C. Board

(1) Remove one knob (G) and remove two screws marked " ★ " as shown in Figure 8.

(2) Disconnect all wires from the Front Aux P.C. Board.

8. Removal of AV Terminal P.C. Board and AV Monitor P.C. Board

(1) Remove six screws marked " ▽ " as shown in Figure 10.

(2) Disconnect all wires from there P.C. Board.

9. Removal of Equalizer P.C. Board

(1) Remove ten screws marked " ⊠ " as shown in Figure 5, 8 and 10.

(2) Disconnect all wires from the Equalizer P.C. Board.

10. Removal of Speaker Terminal P.C. Board

(1) Remove four screws marked " ⊛ " as shown in Figure 10.

(2) Disconnect all wires from the Speaker Terminal P.C. Board.

11. Removal of Rear Cover (JK, EZ model only)

(1) After removal of Equalizer P.C. Board remove ten screws marked " △ " as shown in Figure 10.

(2) Disconnect all wires from the Acoutlet.

Removal of Rear Cover and Fuse P.C. Board (SK, SH, SG model only)

(1) After removal of Equalizer P.C. Board remove one screw marked " ● " and one hook (3) as shown in Figure 12.

(2) Disconnect all wires from the Fuse P.C. Board.

(3) Remove ten screws marked " △ " as shown in Figure 10.

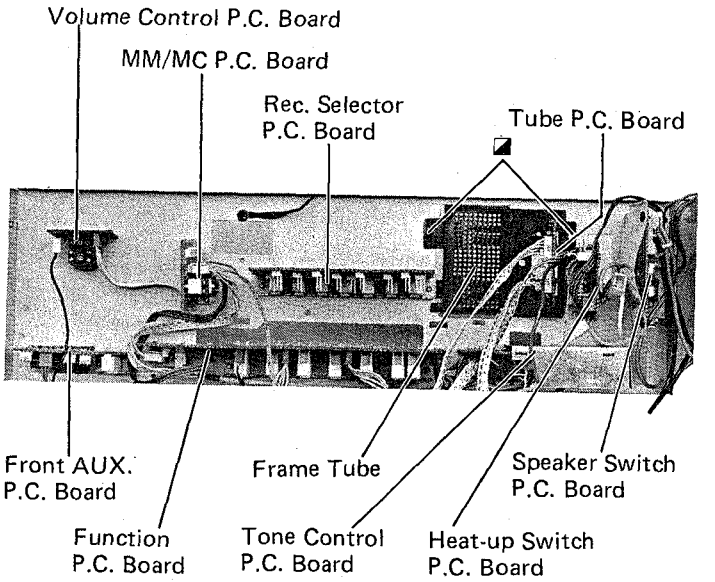


Figure 9

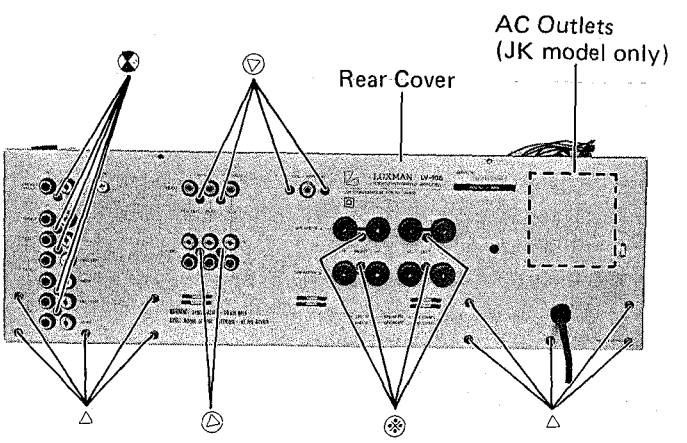


Figure 10

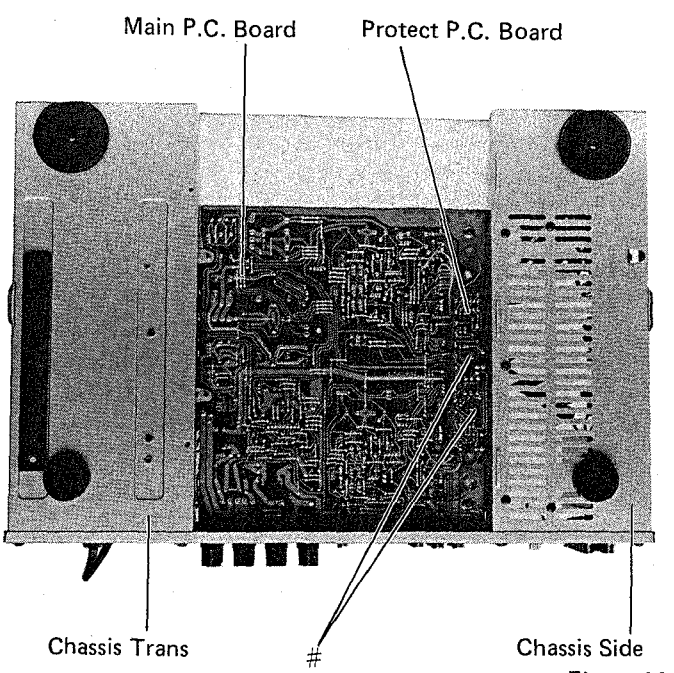


Figure 11

12. Removal of Protect P.C. Board

(1) Remove two screws marked " ⊔ " as shown in Figure 4.

(2) After removal of chassis bottom, remove two screws marked " # " as shown in Figure 11.

(3) Disconnect all wires from the Protect P.C. Board.

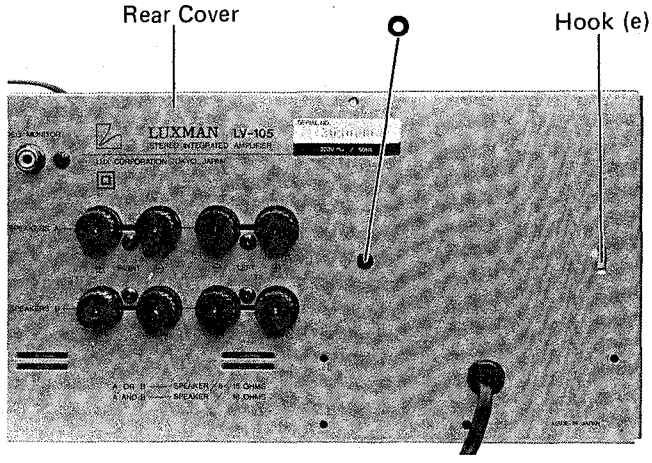


Figure 12

13. Removal of Main P.C. Board

(1) After removal of Equalizer P.C. Board and Rear Cover, remove four screws marked " ▣ " as shown in Figure 5 and 13.

(2) Disconnect all wires from the Main P.C. Board.

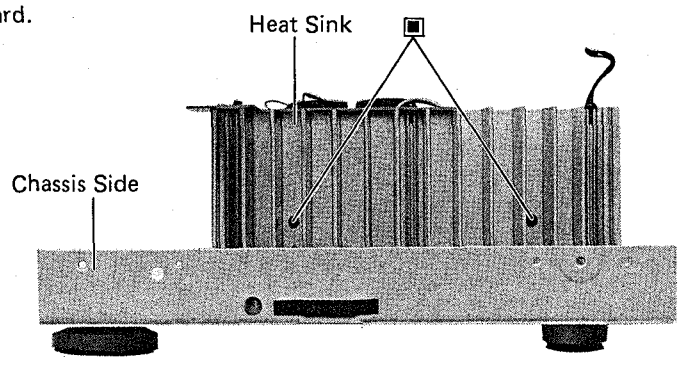
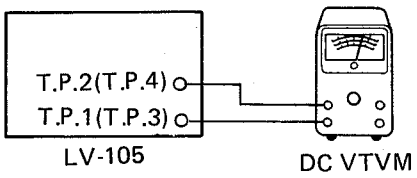


Figure 13

Adjustment Procedures

1. Connection



2. Control Settings

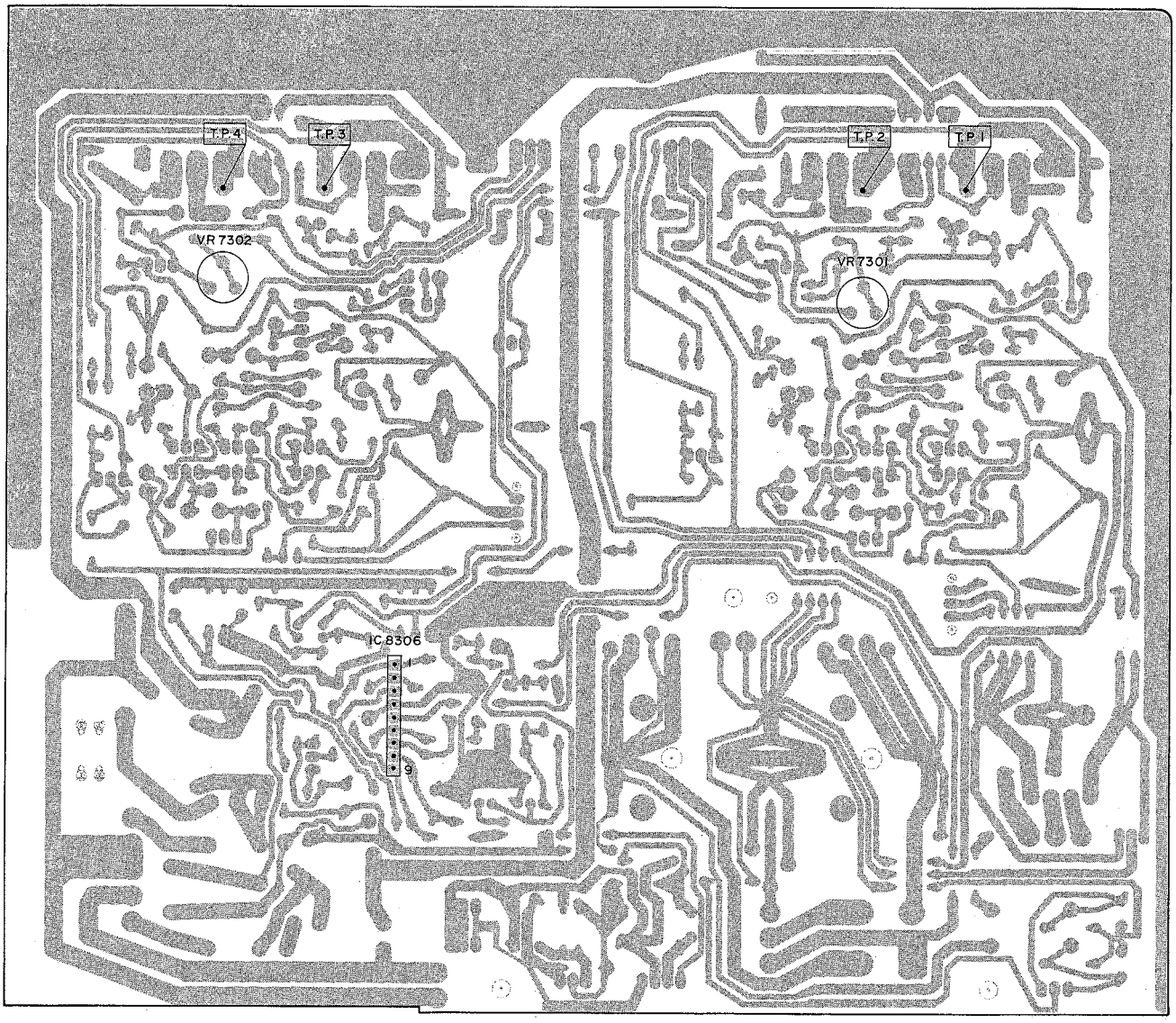
Power Switch . . . . . ON
Volume Control . . . . . Minimum
(fully counterclockwise)
Treble Control . . . . . Center Position
Bass Control. . . . . Center Position
Balance Control . . . . . Center Position
Pre-Heater Switch . . . . . ON
Others. . . . . OFF

3. Adjustment Procedure

(1) Idling Adjustment
Adjust VR7301 (VR7302) until 45mV is obtained between T.P.1 (T.P.3) and T.P.2 (T.P.4).

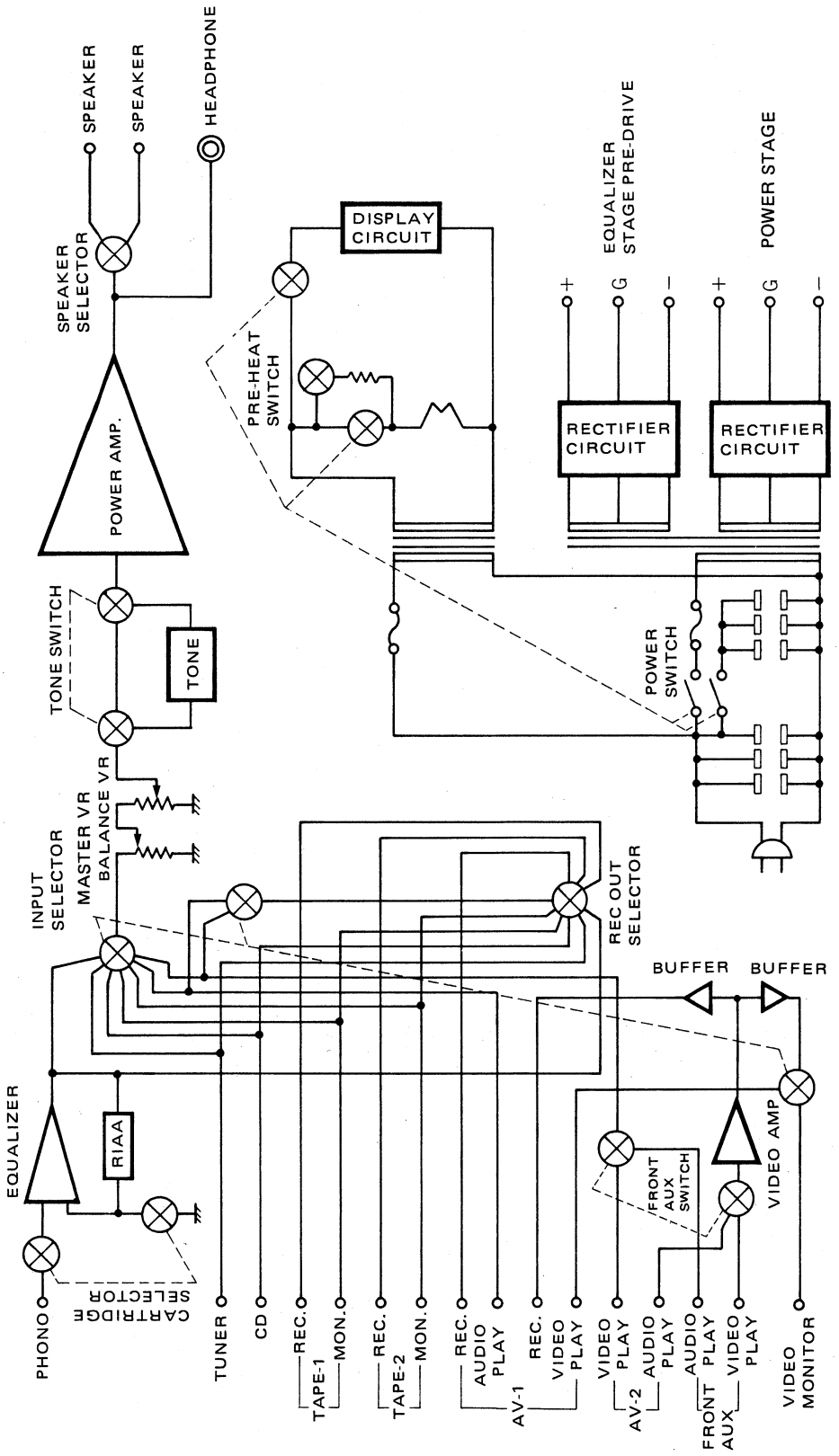
Note: This adjustment should be made approx. 30 minutes often the power on or voltage becames sufficiently steady state.

Adjustment Locations



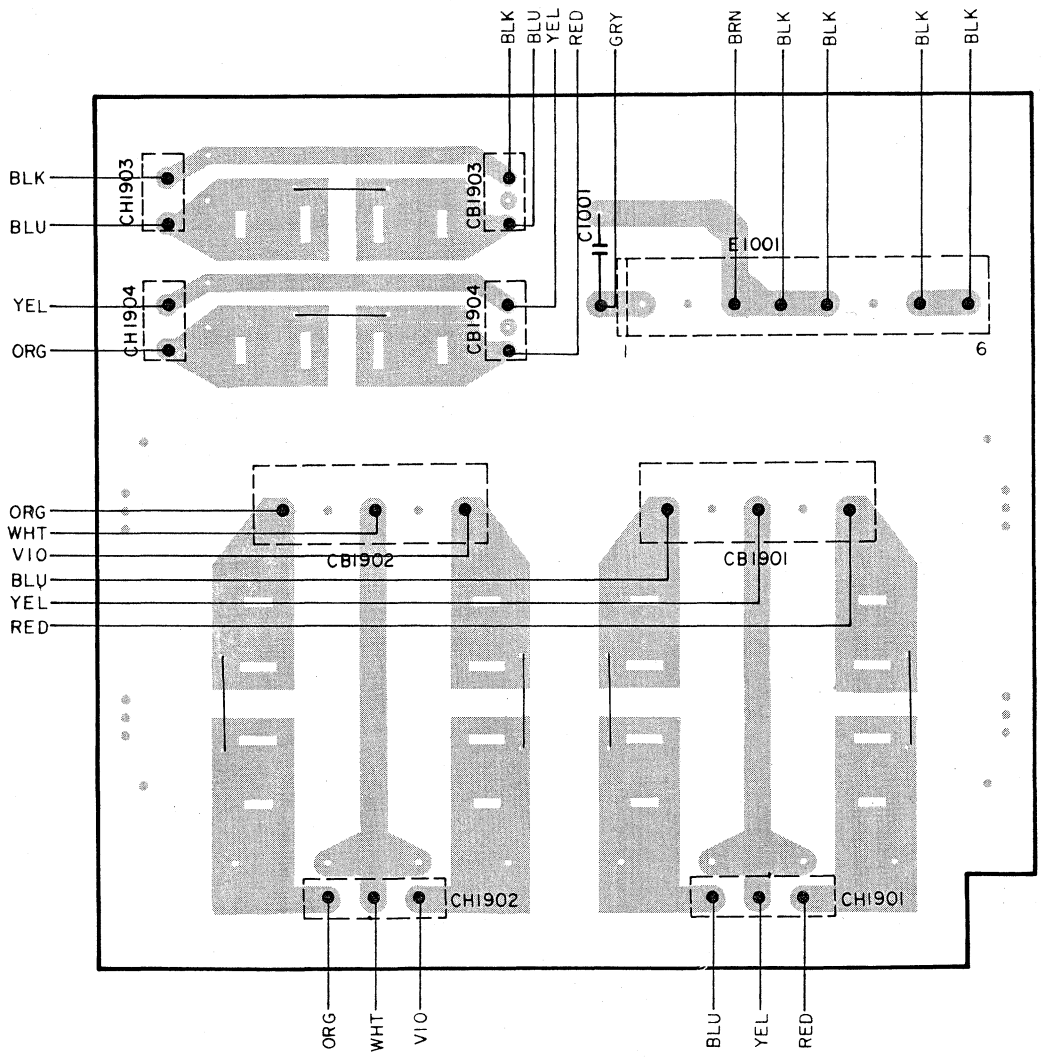
Main P.C. Board

Block Diagram



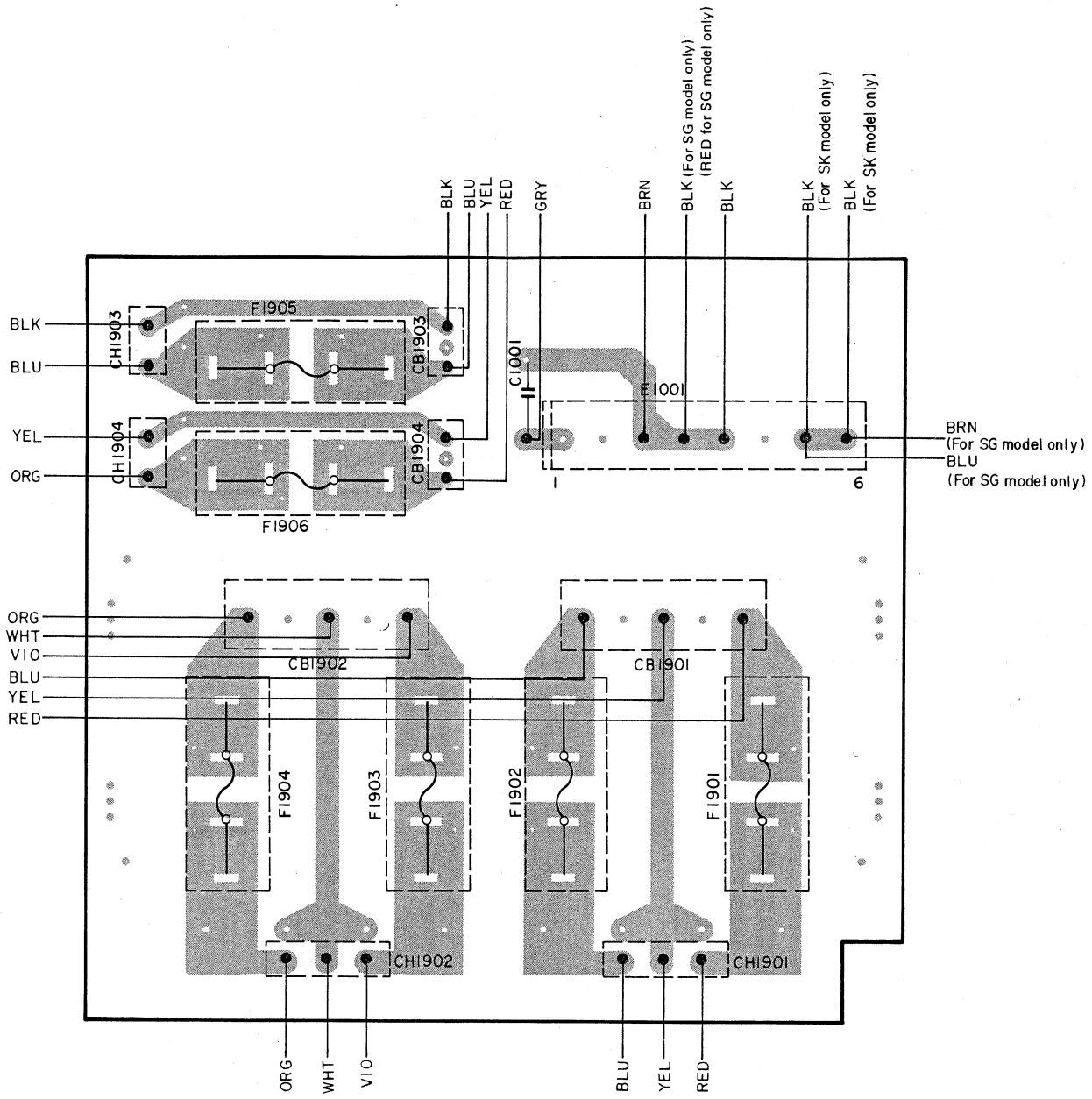
Parts Layout on P.C. Boards

- Fuse P.C. Board (For SH Model)



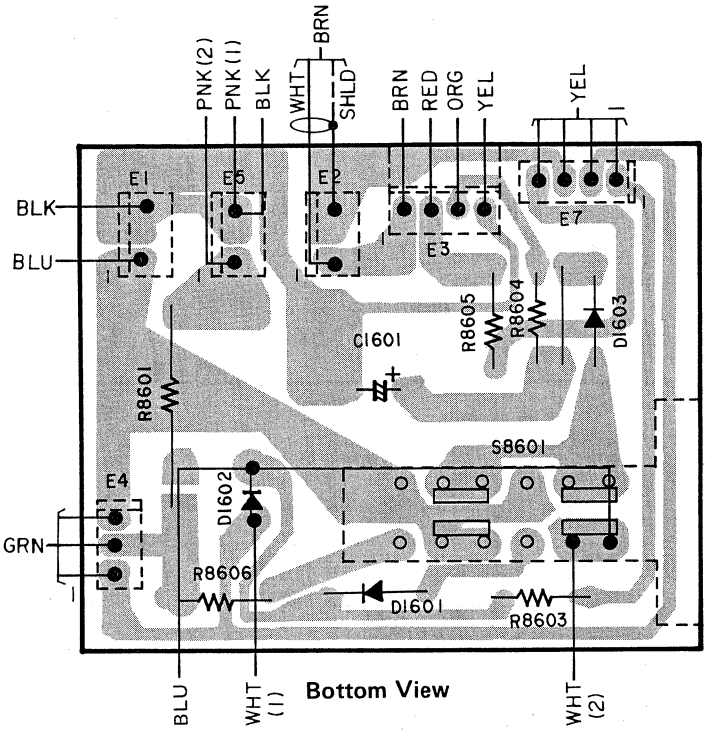
Bottom View

- **Fuse P.C. Board (For SG, SK Model)**



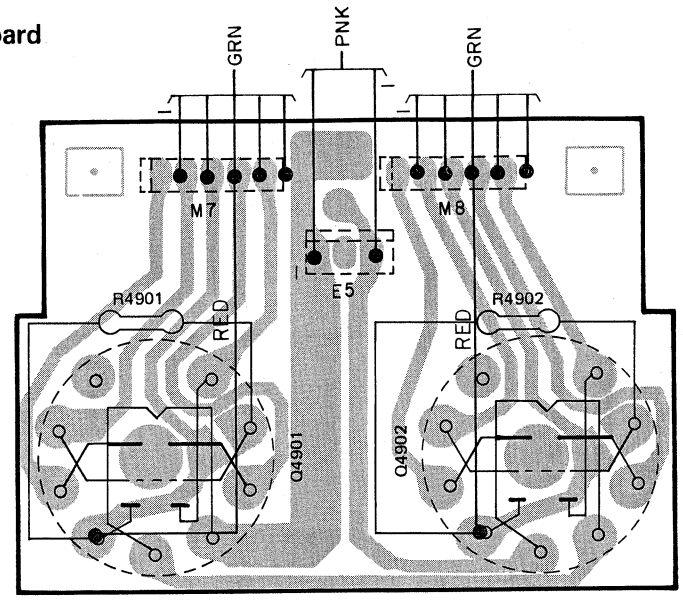
Bottom View

● Heat-up Switch P.C. Board



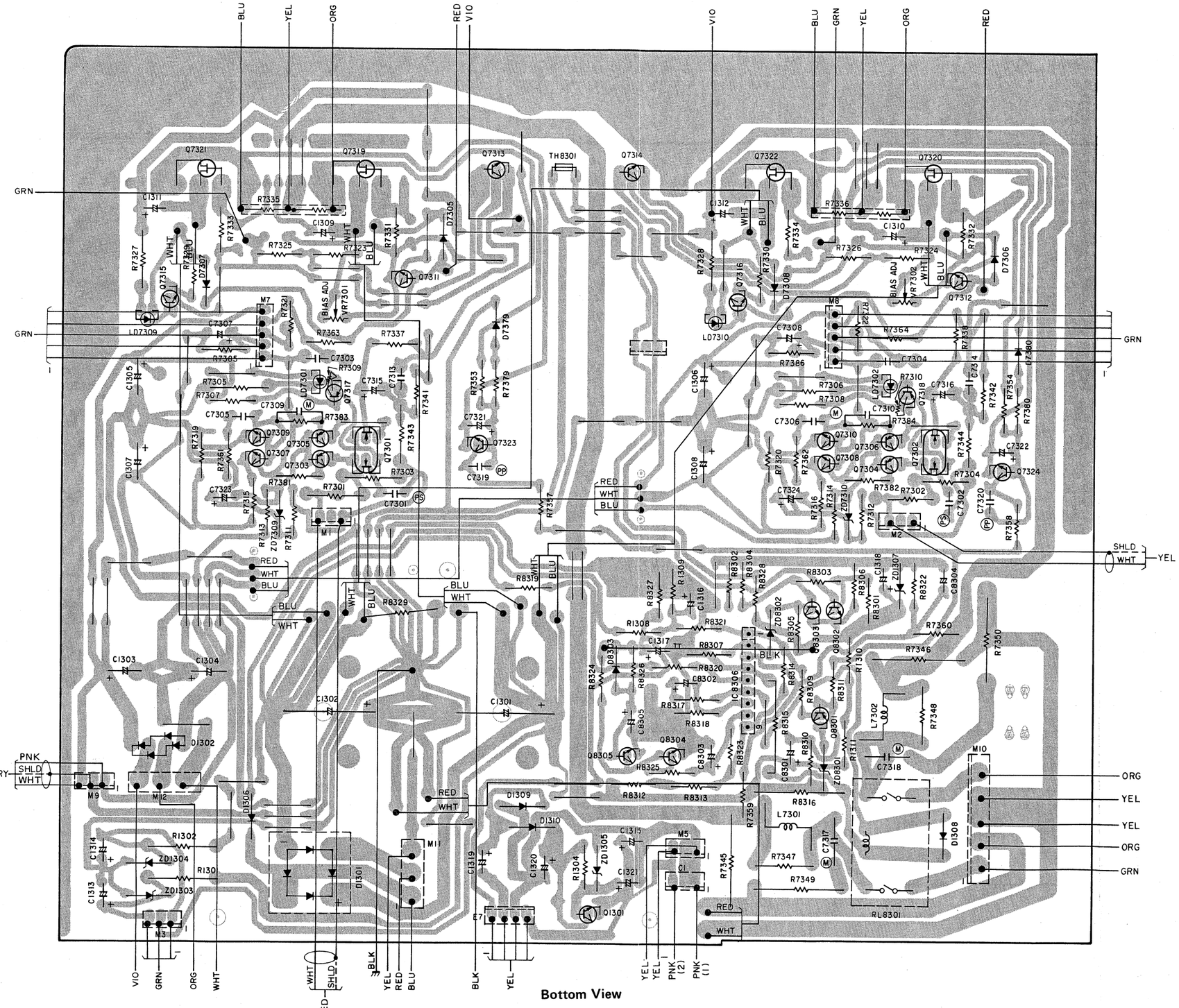
Bottom View

● Tube P.C. Board



Bottom View

• Main P.C. Board



Bottom View

Q7303/7304		Q7305/7306		Q7307/7308		Q7309/7310		Q7311/7312		Q7313/7314		Q7315/7316		Q7317/7318		Q7323/7324		Q8301		Q8302	
E	−5.4V	E	−5.4V	E	−114V	E	−114V	E	1.4V	E	−1.6V	E	−5.1V	E	113.0V	C	0V	E	5.2V	C	1.4V
C	−110V	C	−110V	C	−110V	C	−113V	C	52V	C	1.4V	C	−1.6V	C	−0.30V	B	52V	C	−0.75V	E	12.0V
B	−6.0V	B	−6.0V	B	−113.4V	B	−113.4V	B	2.0V	B	−1.0V	B	−50.4V	B	113.6V	E	0V	B	52V	B	1.4V

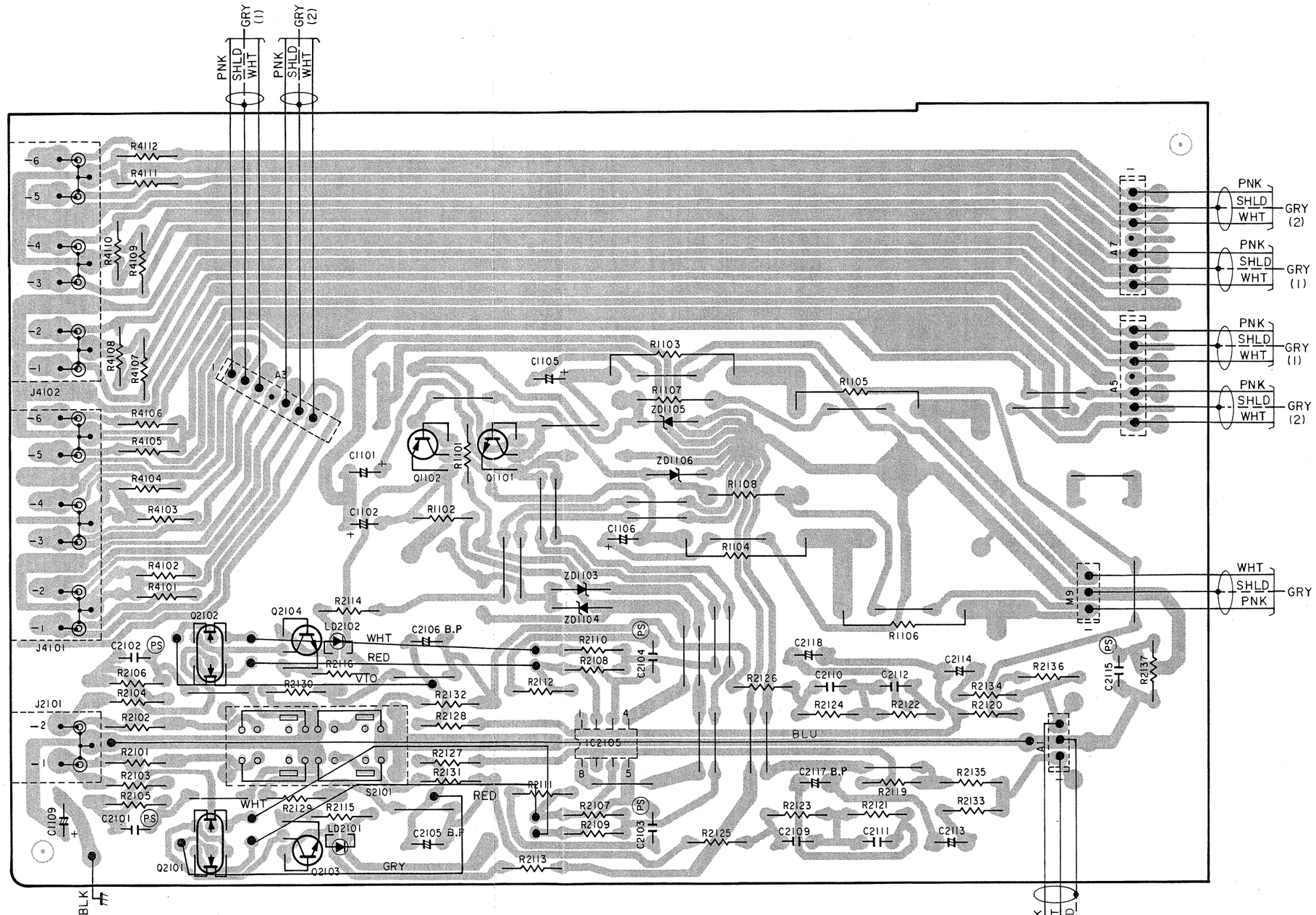
Q7319/7320		Q7321/7322	
NF		NF	
−0.3V	E	−0.022V	E
0V	C	−1.4V	C
−5.4V	B	−62.0V	B

Q7301/7302	
IN	
−0.3V	S
0V	G
−5.4V	D

Q8303		Q8304		Q8305		Q1301	
1.4V	E	0V	E	0V	E	14.0V	E
12.0V	C	0V	C	1.4V	C	35.5V	C
2.0V	B	0.6V	B	0V	B	14.6V	B

IC8306	
1	0.75V
2	0V
3	0V
4	0V
5	−0.75V
6	1.0V
7	0V
8	1.4V
9	3.1V

- **Equalizer P.C. Board**



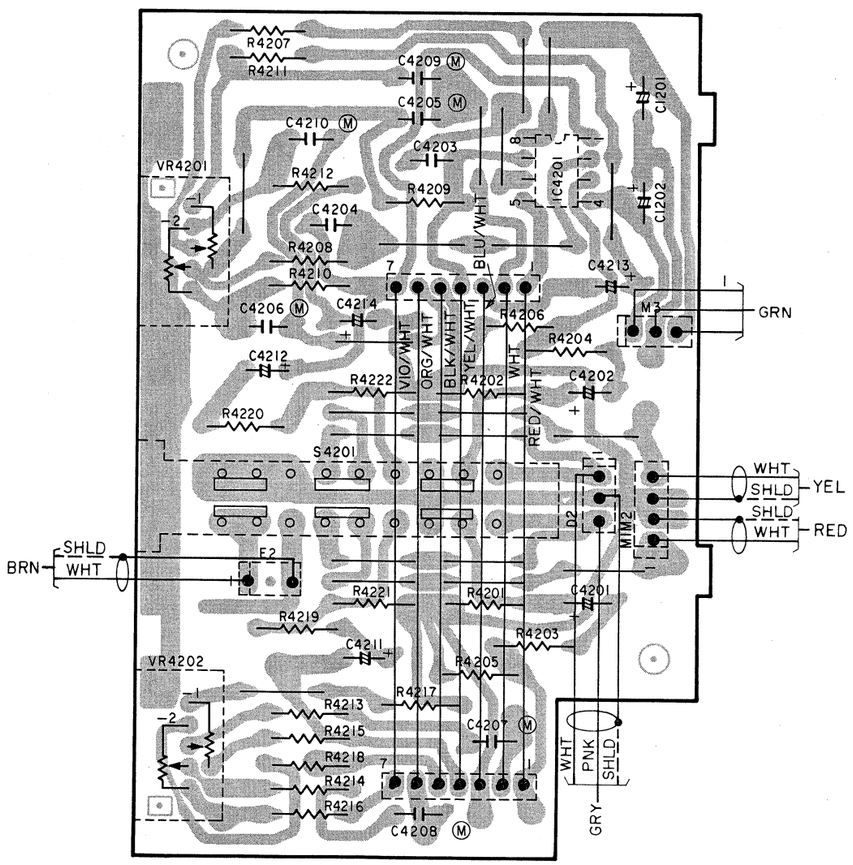
Bottom View

IC2105	
1	0V
2	15.0V
3	15.0V
4	-20.0V
5	15.0V
6	15.0V
7	0V
8	20.0V

Q2101/2102	
S	0.07V
G	0V
D	15.0V

	Q1101	Q1102	Q2103/2104
E	24.5V	-24.5V	-23.3V
B	25.1V	-25.1V	-22.7V
C	45.0V	-45.0V	0.07V

• Tone Control P.C. Board

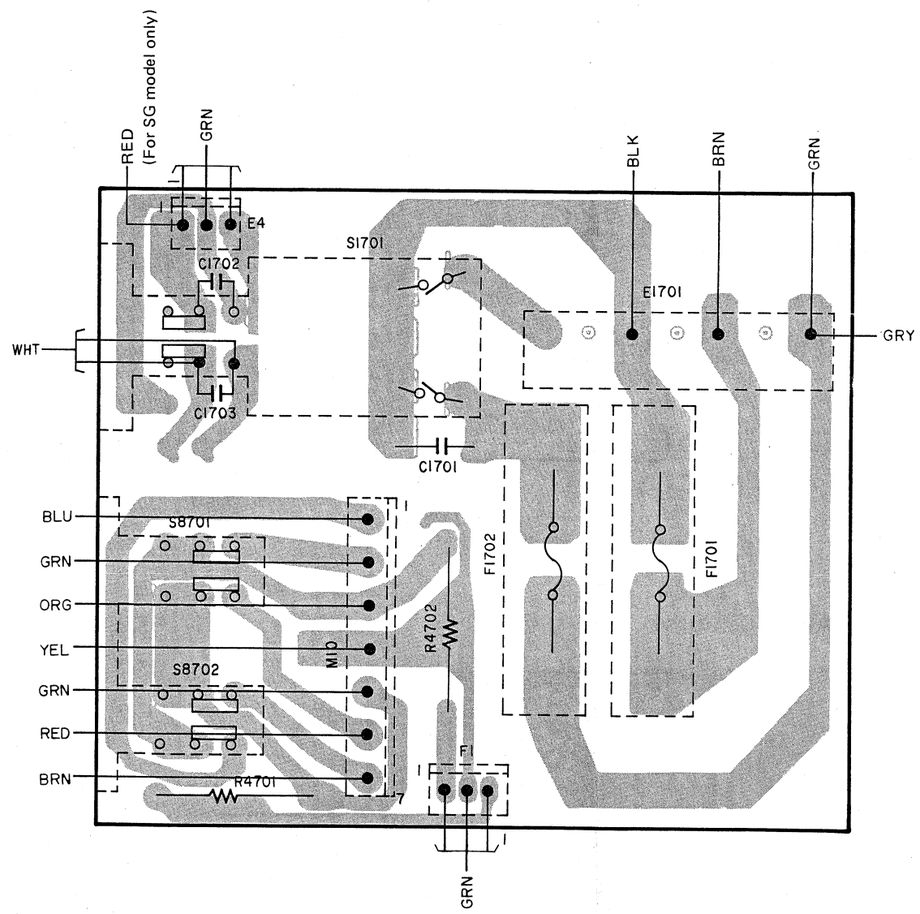


IC4201

1	0V	5	0V
2	0V	6	0V
3	0V	7	0V
4	15V	8	15V

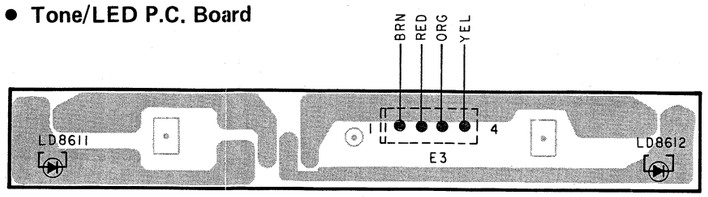
Bottom View

• Speaker Switch P.C. Board



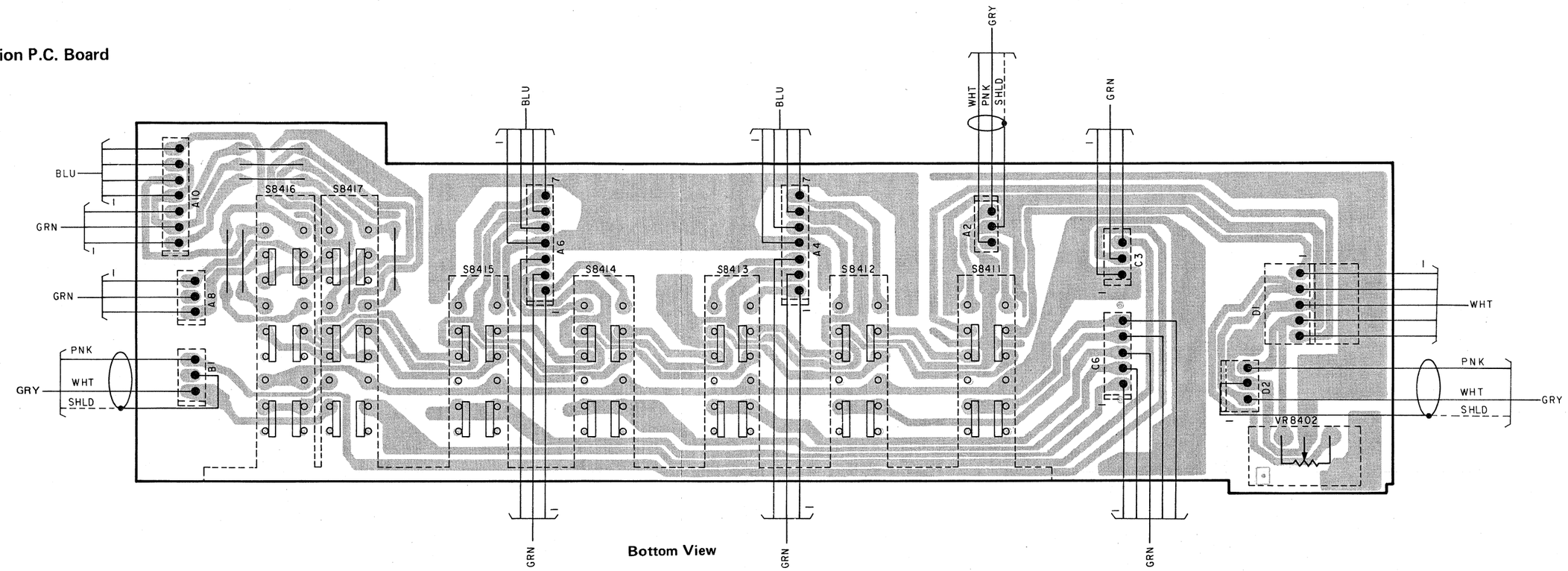
Bottom View

• Tone/LED P.C. Board



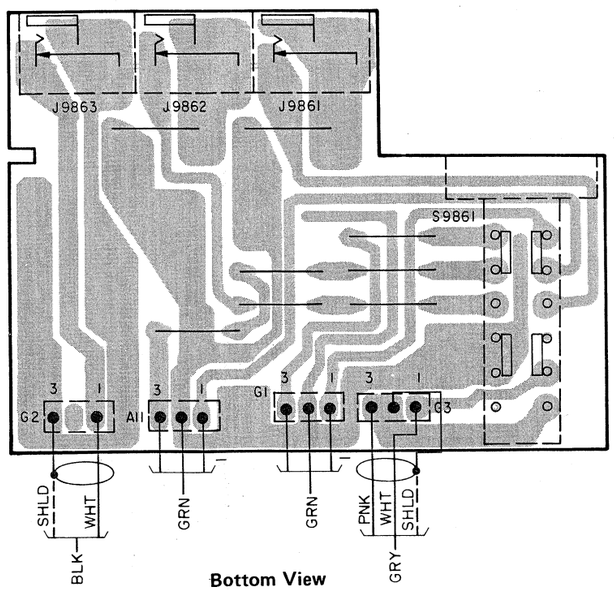
Bottom View

- **Function P.C. Board**



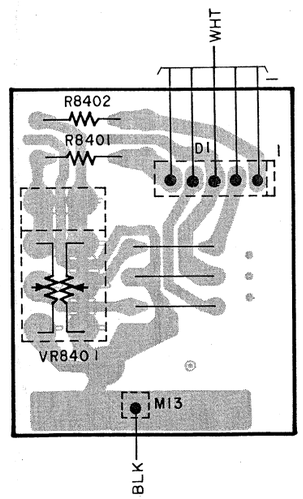
Bottom View

- **Front/AUX P.C. Board**



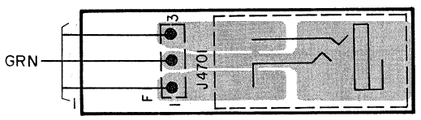
Bottom View

- **Volume Control P.C. Board**



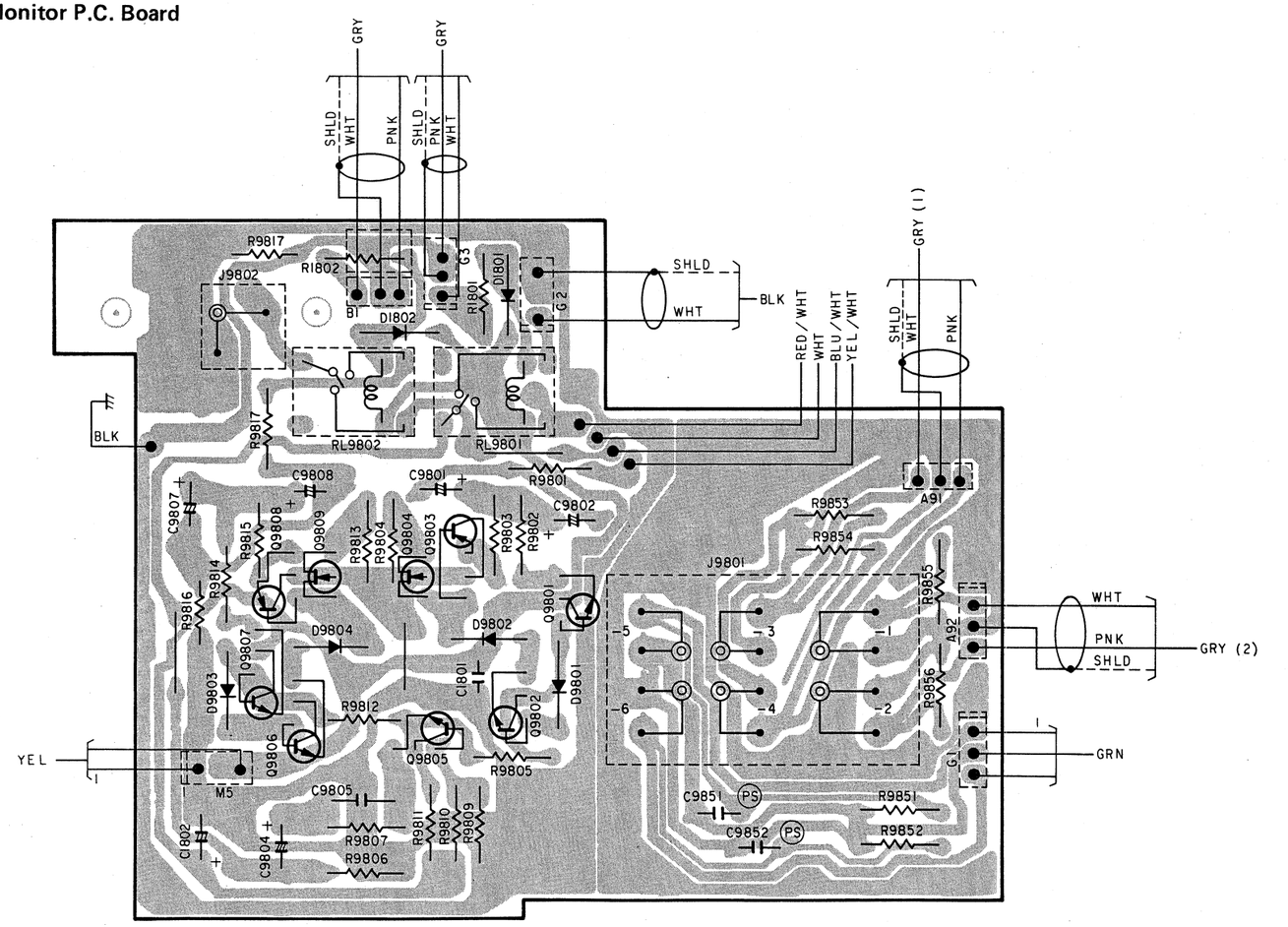
Bottom View

- **Headphone P.C. Board**



Bottom View

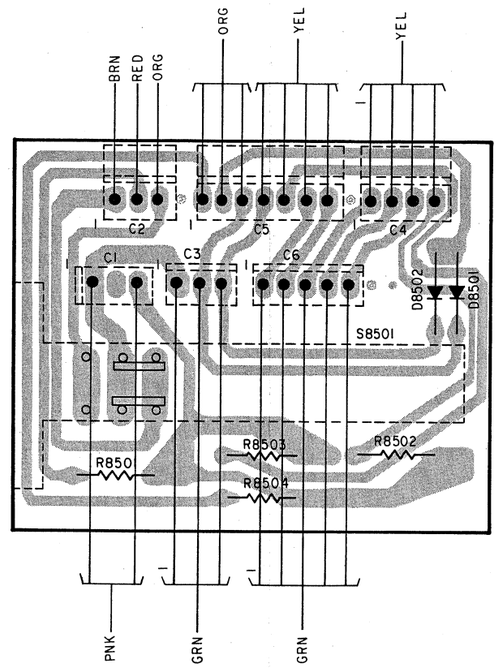
• AV Monitor P.C. Board



Q9801 Q9807	Q9802 Q9806	Q9803 Q9808	Q9805
E 8.0V	7.4V	7.6V	1.2V
B 8.6V	8.0V	7.0V	1.8V
C 14.0V	8.6V	0V	9.0V

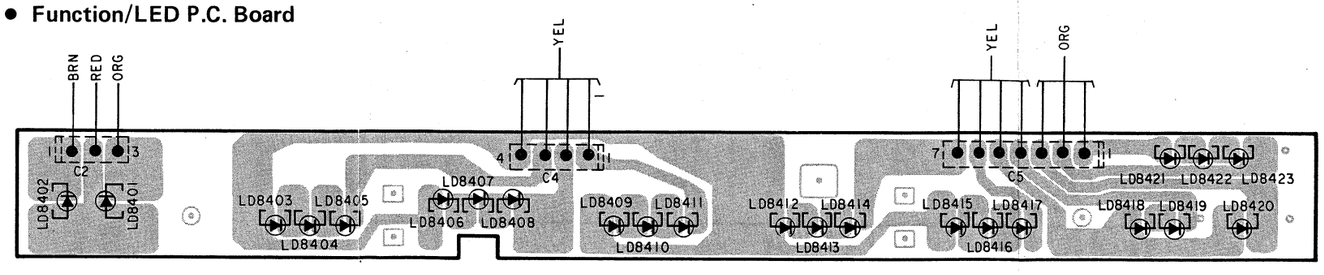
Q9804 Q9809	
S	0.12V
G	0V
D	7.0V

• MM/MC P.C. Board



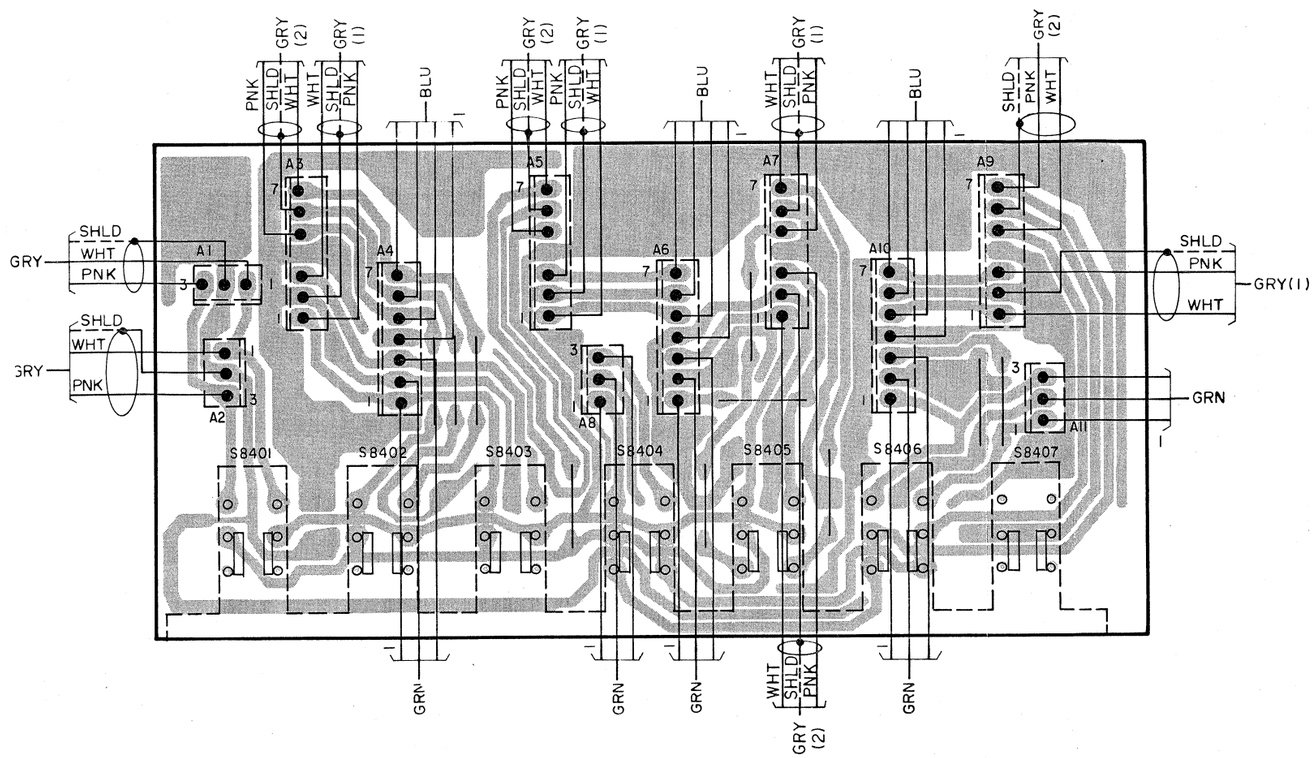
Bottom View

• Function/LED P.C. Board



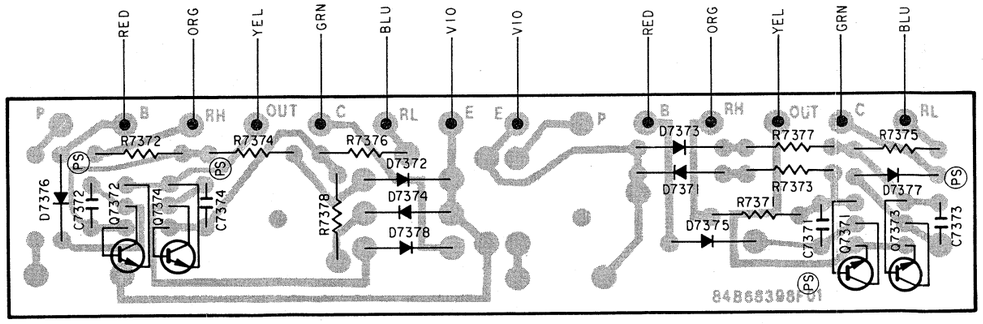
Bottom View

● REC Selector P.C. Board



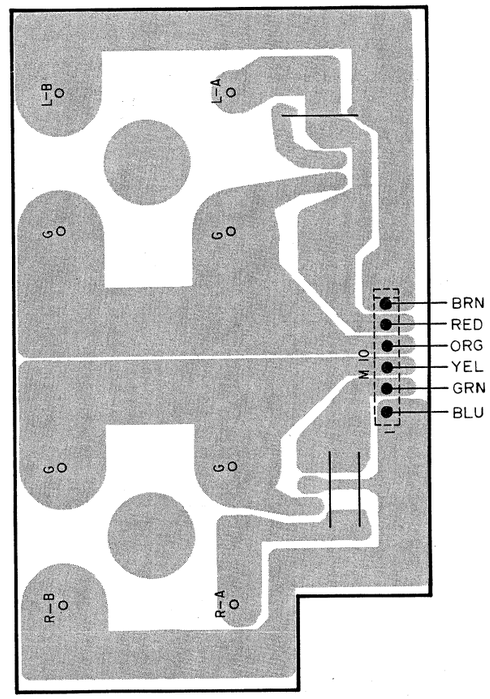
Bottom View

● Protect P.C. Board



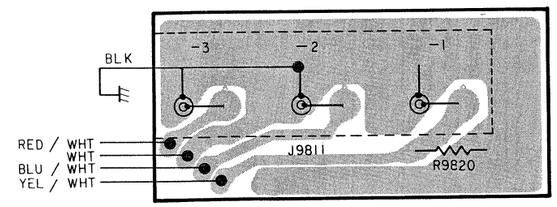
Bottom View

● Speaker Terminal P.C. Board



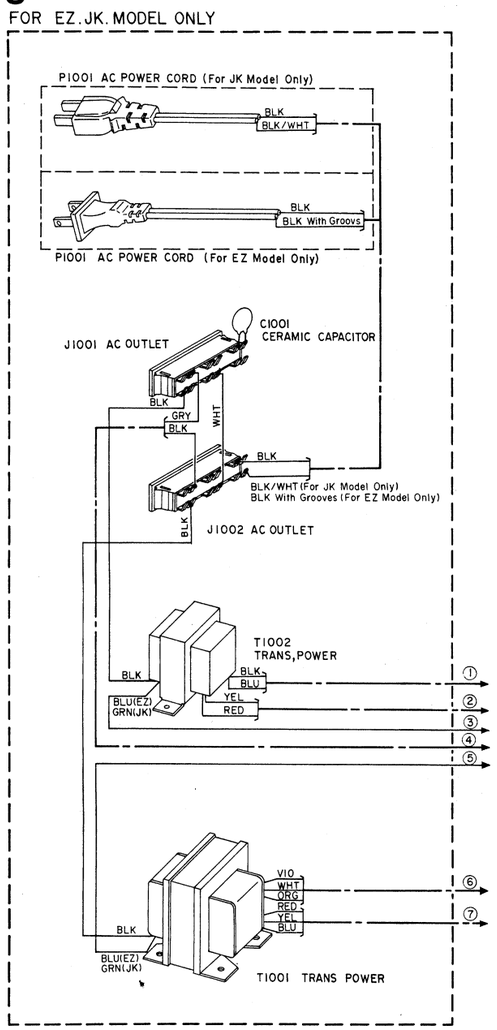
Bottom View

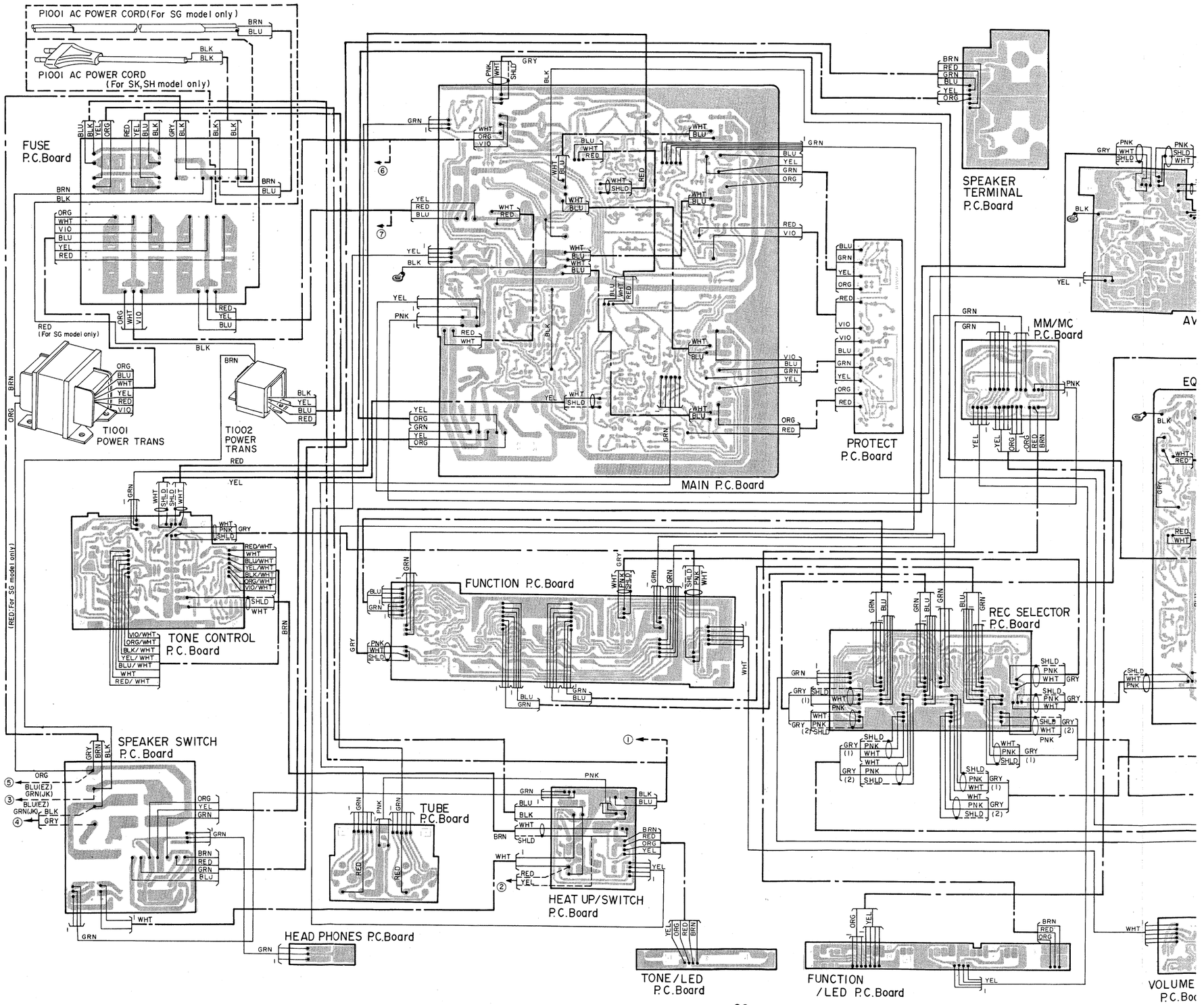
● AV Terminal P.C. Board

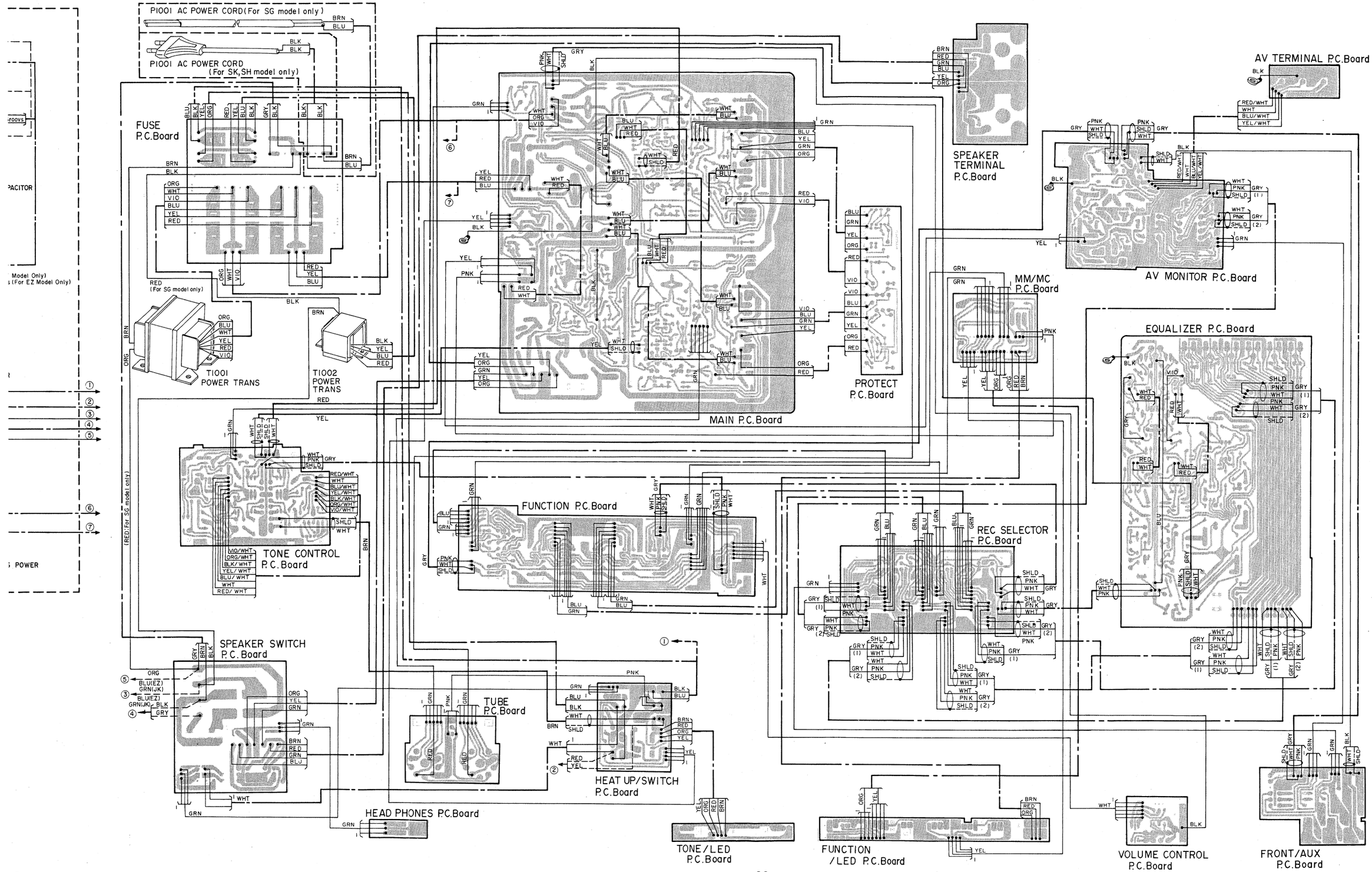


Bottom View

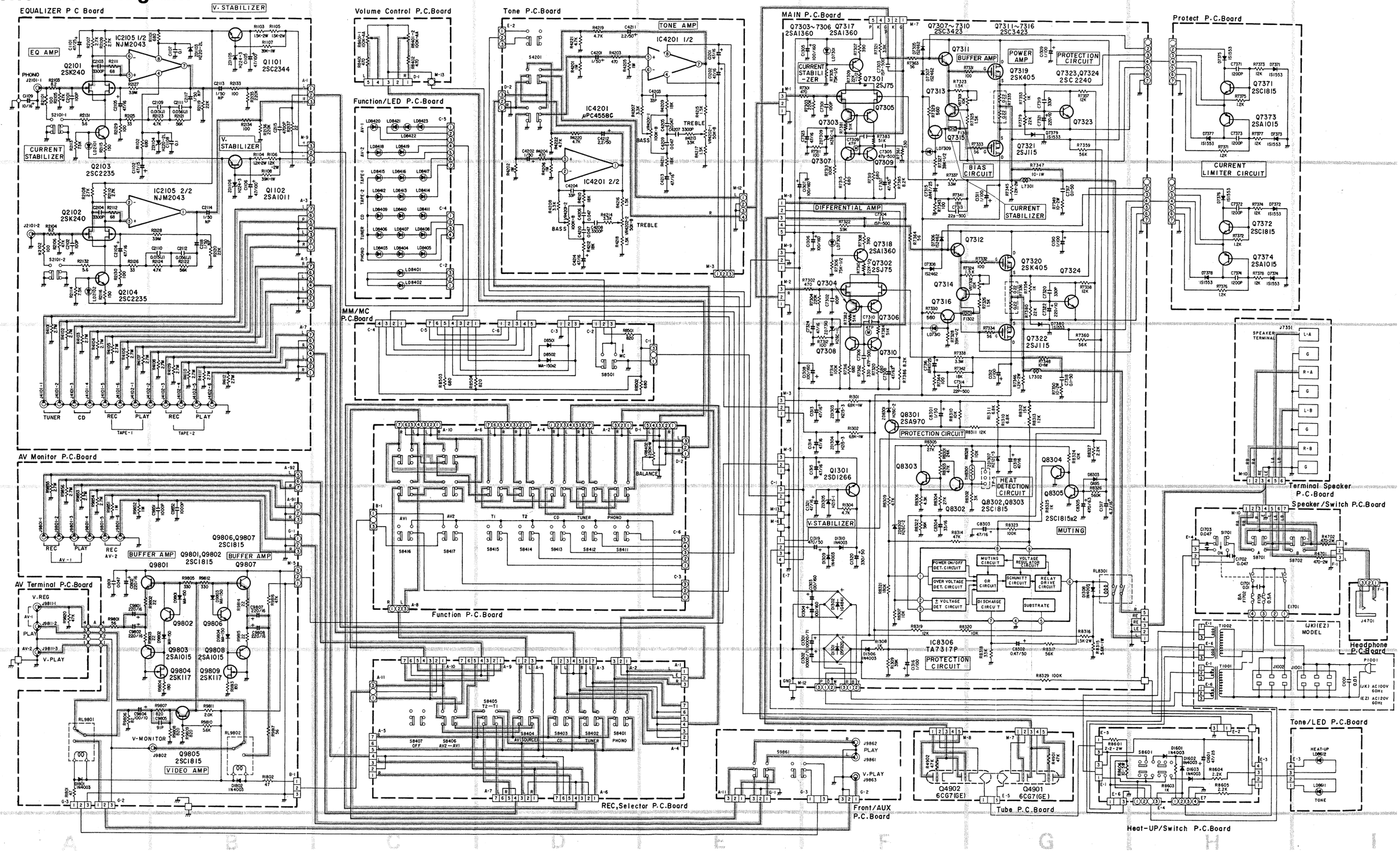
Wiring Diagram

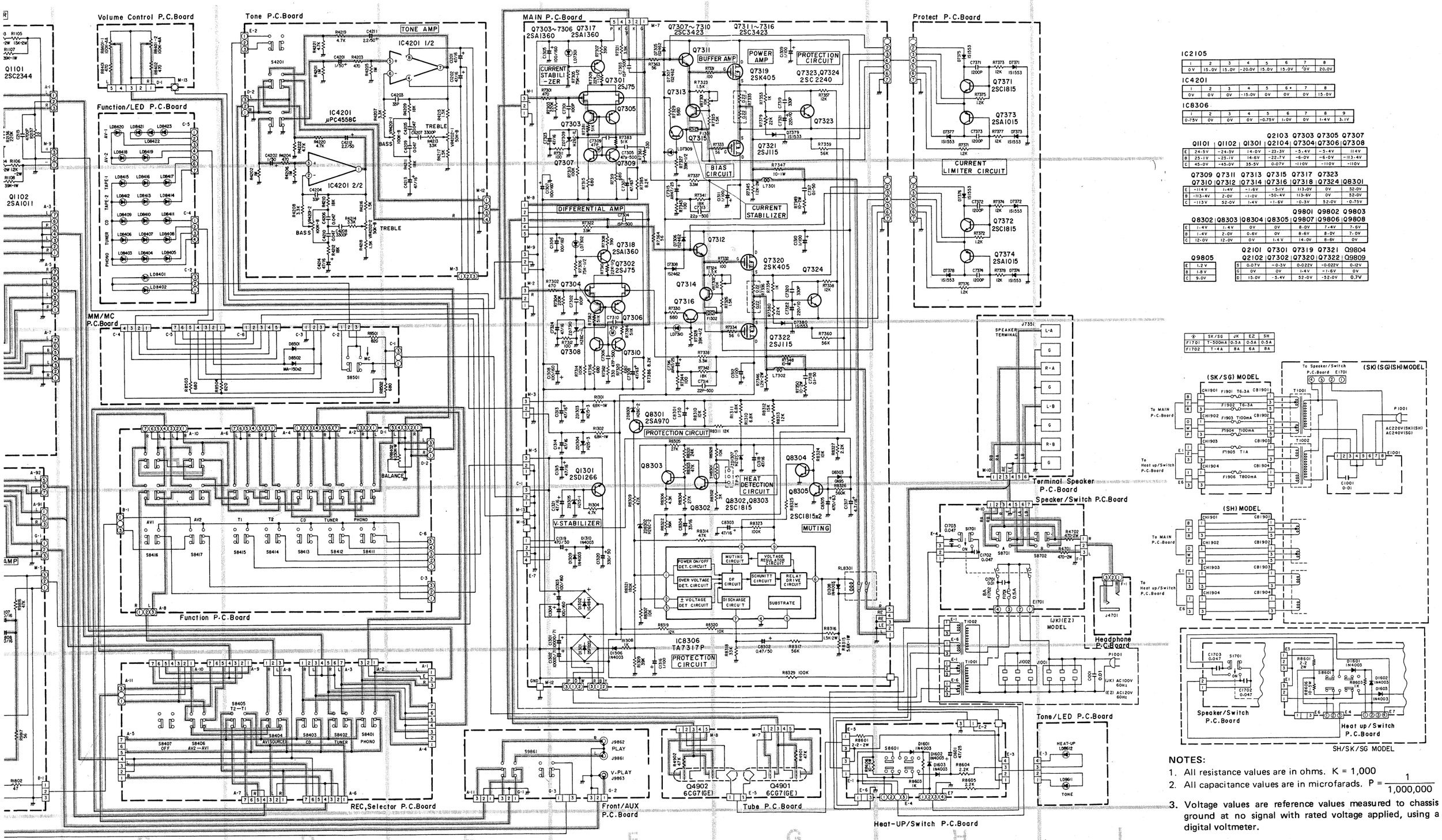





PI001 AC POWER CORD(For SG model only)
PI001 AC POWER CORD (For SK,SH model only)
FUSE P.C.Board
T1001 POWER TRANS
T1002 POWER TRANS
MAIN P.C.Board
PROTECT P.C.Board
SPEAKER TERMINAL P.C.Board
AV TERMINAL P.C.Board
AV MONITOR P.C.Board
MM/MC P.C.Board
EQUALIZER P.C.Board
TONE CONTROL P.C.Board
FUNCTION P.C.Board
REC SELECTOR P.C.Board
SPEAKER SWITCH P.C.Board
TUBE P.C.Board
HEAT UP/SWITCH P.C.Board
HEAD PHONES P.C.Board
TONE/LED P.C.Board
FUNCTION /LED P.C.Board
VOLUME CONTROL P.C.Board
FRONT/AUX P.C.Board
(RED:For SG model only)
Model Only)
s (For EZ Model Only)
POWER

Schematic Diagram





IC2105

1	2	3	4	5	6	7	8
0V	15.0V	15.0V	-20.0V	15.0V	15.0V	0V	20.0V

IC4201

1	2	3	4	5	6	7	8
0V	0V	0V	-15.0V	0V	0V	0V	15.0V

IC8306

1	2	3	4	5	6	7	8	9
0.75V	0V	0V	0V	-0.75V	1.0V	0V	1.4V	3.1V

	Q2103	Q7303	Q7305	Q7307
	Q1101 | Q1102 | Q1301 | Q2104 | Q7304 | Q7306 | Q7308			
E	24.5V	-24.5V	14.0V	-23.3V	-5.4V	-5.4V	114V
B	25.1V	-25.1V	14.6V	-22.7V	-6.0V	-6.0V	-113.4V
C	45.0V	-45.0V	35.5V	0.07V	-110V	-110V	-110V

	Q7309	Q7311	Q7313	Q7315	Q7317	Q7323
	Q7310 | Q7312 | Q7314 | Q7316 | Q7318 | Q7324 | Q8301					
E	-114V	1.4V	-1.6V	-5.1V	113.0V	0V	52.0V
B	-113.4V	2.0V	-1.0V	-50.4V	113.6V	0V	52.0V
C	-113V	52.0V	1.4V	-1.6V	-0.3V	52.0V	-0.75V

	Q9801	Q9802	Q9803
	Q8302 | Q8303 | Q8304 | Q8305 | Q9807 | Q9806 | Q9808		
E	1.4V	1.4V	0V	0V	8.0V	7.4V	7.6V
B	1.4V	2.0V	0.6V	0V	8.6V	8.0V	7.0V
C	12.0V	12.0V	0V	1.4V	14.0V	8.6V	0V

	Q9805
E	1.2V
B	1.8V
C	9.0V

	Q2101	Q7301	Q7319	Q7321	Q9804
	Q2102 | Q7302 | Q7320 | Q7322 | Q9809				
S	0.07V	-0.3V	0.022V	-0.022V	0.12V
G	0V	0V	1.4V	-1.6V	0V
D	15.0V	-5.4V	52.0V	-52.0V	0.7V

	SK/SG	JK	EZ	SH
F1701	T-500mA	0.5A	0.5A	0.5A
F1702	T-4A	8A	6A	8A

NOTES:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1{,}000{,}000}$
3. Voltage values are reference values measured to chassis ground at no signal with rated voltage applied, using a digital voltmeter.

Electrical Parts List

Resistors: Carbon resistors that are less than 1/4 watts are not entered on the parts list, please confirm them by schematic diagram.
uF = microfarads, pF = picofarads

Symbol No.	Part No.	Description
Equalizer P.C. Board		
IC's		
IC2105	51T52153F01	NJM2043D-D
Transistors		
Q1101	48T64240F01	2SC2344-E
or	48T64240F02	2SC2344-D
Q1102	48T47145F01	2SA1011-D
or	48T47145F02	2SA1011-E
Q2101	48T60558F01	FET, 2SK240-BL
or	48T60558F02	FET, 2SK240-V
Q2102	48T60558F01	FET, 2SK240-BL
or	48T60558F02	FET, 2SK240-V
Q2103	48T51120F01	2SC2235-Y
Q2104	48T51120F01	2SC2235-Y
Diodes		
LD2101	48T60947F06	LED, SLH-34VR5F (Red)
LD2102	48T60947F06	LED, SLH-S4VR5F (Red)
ZD1103	48T52741F56	Zener, HZ20-2L
ZD1104	48T52741F56	Zener, HZ20-2L
ZD1105	48T52739F93	Zener, HZ24-3
or	48T56372F77	Zener, RD27E-B1
ZD1106	48T52739F93	Zener, HZ24-3
or	48T56372F77	Zener, RD27E-B1
Jacks/Switch		
J2101	09T67403F01	Plate Phone (Phone)
J4101	09T67404F01	Plate Phone (Tuner, CD)
J4102	09T67404F01	Plate Phone (Tape 1, Tape 2)
S2101	40T57372F01	Switch, Slide SSR2435 (Cartridge)
Capacitors		
C1101	23S40657F20	Electrolytic, 47μF/25V
C1102	23S40657F20	Electrolytic, 47μF/25V
C1105	23S41198U32	Electrolytic, 47μF/100V
C1106	23S41198U32	Electrolytic, 47μF/100V
C1107	08T57851F13	T.F. 0.1μF
C1108	08T57851F13	T.F. 0.1μF
C1109	23T42477F06	Electrolytic, 10μF/16V
C2101	08T67344F01	Polystyrol, 100 pF
C2102	08T67344F01	Polystyrol, 100 pF
C2103	08T67344F37	Polystyrol, 3300 pF
C2104	08T67344F37	Polystyrol, 3300 pF
C2105	23T61177F02	Electrolytic, 47μF/16V
C2106	23T61177F02	Electrolytic, 47μF/16V
C2109	08T68632F15	Polyester, 0.015μF/50V
C2110	08T68632F15	Polyester, 0.015μF/50V
C2111	08T68632F22	Polyester, 0.056μF/50V
C2112	08T68632F22	Polyester, 0.056μF/50V
C2113	23T61177F08	Electrolytic, (BP) 1μF/50V
C2114	23T61177F08	Electrolytic, (BP) 1μF/50V
C2115	08T67344F41	Polystyrol, 4700 pF
C2117	23T61177F08	Electrolytic, (BP) 1μF/50V
C2118	23T61177F08	Electrolytic, (BP) 1μF/50V
Resistors		
R1103	06T00007L69	Metal Film, 1.5K ohm 2W
or	06T55179F69	Metal Film, 1.5K ohm 2W
R1104	06T00007L67	Metal Film, 1.2K ohm 2W
or	06T55179F67	Metal Film, 1.2K ohm 2W
R1105	06T00007L69	Metal Film, 1.5K ohm 2W
or	06T55179F69	Metal Film, 1.5K ohm 2W
R1106	06T00007L67	Metal Film, 1.2K ohm 2W
or	06T55179F67	Metal Film, 1.2K ohm 2W
R1107	06T00006L04	Metal Film, 39K ohm 1W
or	06T55178F04	Metal Film, 39K ohm 1W
R1108	06T00006L04	Metal Film, 39K ohm 1W
or	06T55178F04	Metal Film, 39K ohm 1W
R2101	06T00013L41	Carbon Film, 100 ohm 1/3W
R2102	06T00013L41	Carbon Film, 100 ohn 1/3W
R2103	06T00013L15	Carbon Film, 8.2 ohm 1/3W
R2104	06T00013L15	Carbon Film, 8.2 ohm 1/3W
R2105	06T00014L06	Carbon Film, 47K ohm 1/3W
R2106	06T00014L06	Carbon Film, 47K ohm 1/3W
R2129	06T00013L41	Carbon Film, 100 ohm 1/3W
R2130	06T00013L41	Carbon Film, 100 ohm 1/3W
R2131	06T00013L11	Carbon Film, 5.6 ohm 1/3W
R2132	06T00013L11	Carbon Film, 5.6 ohm 1/3W
R4103	06T00014L48	Carbon Film, 2.7 ohm 1/3W
R4104	06T00014L48	Carbon Film, 2.7 ohm 1/3W

Symbol No.	Part No.	Description
Heat-up/Switch P.C. Board		
Diodes/Switch		
D1601	48S40477U01	1N4003
D1602	48S40477U01	1N4003
D1603	48S40477U01	1N4003
S8601	40T67389F01	Switch, Push, SUL121S (Pre-heating)
Capacitors/Resistors		
C1601	23S40657F20	Electrolytic, 47 μF/25V
R8601	06T0007L01	Res., Metal Film, 2.2 ohm 2W
又は	06T55179F01	Res., Metal Film, 2.2 ohm 2W
R8606	06T60132F01	Res., Cement 10 ohm 5W
Speaker/Switch P.C. Board		
Fuses/Switches		
F1701 ●	65T55050F05	Fuse, MF60NR 0.5A-125V
F1701 ○	65T52486F13	Fuse, MF61NM 0.5A-125V
F1701 ■	65T42077U13	Fuse, T-500mA
F1701 ▲	65T42077U13	Fuse, T-500mA
F1701 ★	65T55050F05	Fuse, MF60NR 0.5A-125V
F1702 ●	65T55050F19	Fuse, NR60 8A-125V
F1702 ○	65T52486F41	Fuse, CS61M 6A-125V
F1702 ■	65T42077U22	Fuse, T-4A
F1702 ▲	65T42077U22	Fuse, T-4A
F1702 ★	65T55050F19	Fuse, MF60NR 8A-125V
S1701 ●	40T61963F02	Switch, Push (Power)
S1701 ○	40T61963F02	Switch, Push SDU4P
S1701 ■	40T68579F01	Switch, Push SDU3P
S1701 ▲	40T68579F01	Switch, Push SDU3P
S1701 ★	40T68579F01	Switch, Push SDU3P
S8701	40T67388F01	Switch, Push (Speaker A)
S8702	40T67388F01	Switch, Push (Speaker B)
Capacitors/Resistors		
C1701	08T57437F09	Ceramic, 0.01 μF
C1702	21C45322G33	Ceramic, 0.047 μF
C1703	21C45322G33	Ceramic, 0.047 μF
R4701	06T55179F57	Res., Metal Film, 470 ohm 2W
or	06T00007L57	Res., Metal Film, 470 ohm 2W
R4702	06T55179F57	Res., Metal Film, 470 ohm 2W
or	06T00007L57	Res., Metal Film, 470 ohm 2W

Symbol No.	Part No.	Description
Tone P.C. Board		
IC/Switch		
IC4201	51S43471U02	μPC4558C
S4201	40T61986F01	Switch, Push 122A (Tone)
Capacitors/Volumes		
C1201	23S40657F13	Electrolytic, 47 μF/16V
C1202	23S40657F13	Electrolytic, 47 μF/16V
C4201	23T42478F24	Electrolytic, 1 μF/50V
C4202	23T42478F24	Electrolytic, 1 μF/50V
C4203	21S40655F17	Ceramic, 33 pF
C4204	21S40655F17	Ceramic, 33 pF
C4205	08S40656F21	Mylar, 0.047 μF
C4206	08S40656F21	Mylar, 0.047 μF
C4207	08S40656F07	Mylar, 3300 pF
C4208	08S40656F07	Mylar, 3300 pF
C4209	08S40656F21	Mylar, 0.047 μF
C4210	08S40656F21	Mylar, 0.047 μF
C4211	23T58711F31	Electrolytic, 2.2 μF/50V
C4212	23T58711F31	Electrolytic, 2.2 μF/50V
C4213	23T42477F39	Electrolytic, 4.7 μF/16V
C4214	23T42477F39	Electrolytic, 4.7 uF/16V
VR4201	18T67394F01	Volume, K122G 100K ohm (Bass)
VR4202	18T67395F01	Volume, K122G 50K ohm (Treble)
Main P.C. Board		
IC's		
IC8306	51T67437F01	TA7317P
Transistors		
Q1301	48T56031F01	2SD1266-P, Q
Q7301	48T62284F01	FET, 2SJ75-BL
Q7302	48T62284F01	FET, 2SJ75-BL
Q7303	48T64375F01	2SA1360-O, Y
Q7304	48T64375F01	2SA1360-O, Y

Note: ● : For JK model only, ○ : For EZ model only, ■ : For SK model only,
▲ : For SG model only, ★ : For SH model only, Others: Common

Symbol No.	Part No.	Description
Q7305	48T64375F01	2SA1360-O, Y
Q7306	48T64375F01	2SA1360-O, Y
Q7307	48T64376F01	2SC3423-O, Y
Q7308	48T64376F01	2SC3423-O, Y
Q7309	48T64376F01	2SC3423-O, Y
Q7310	48T64376F01	2SC3423-O, Y
Q7311	48T64376F01	2SC3423-O, Y
Q7312	48T64376F01	2SC3423-O, Y
Q7313	48T64376F01	2SC3423-O, Y
Q7314	48T64376F01	2SC3423-O, Y
Q7315	48T64376F01	2SC3423-O, Y
Q7316	48T64376F01	2SC3423-O, Y
Q7317	48T64375F01	2SA1360-O, Y
Q7318	48T64375F01	2SA1360-O, Y
Q7319	48T67399F01	FET, 2SK405-Y
Q7320	48T67399F01	FET, 2SK405-Y
Q7321	48T67398F01	FET, 2SJ115-Y
Q7322	48T67398F01	FET, 2SJ115-Y
Q7323	48T53301F01	2SC2240-BL
Q7324	48T53301F01	2SC2240-BL
Q8301	48T52545F03	2SA970-BL, GR
Q8302	48S43525F05	2SC1815-Y, GR
Q8303	48T43525F05	2SC1815-Y, GR
Q8304	48S43525F05	2SC1815-Y, GR
Q8305	48S43525F05	2SC1815-Y, GR
Relay/Thermister		
RL8301	80T58612F01	Relay G2Z-222P-US-24
TH8301	48T67436F01	Thermister NB320UASZ
Coils		
L7301	24T65716F02	Choke, 1.1μH
L7302	24T65716F02	Choke, 1.1μH
Diodes/LEDs		
D1301	48T67435F01	Bridge, D5FB20
D1302	48T61415F03	Bridge, 1G4B41
D1306	48S40477U01	1N4003
D1308	48S40477U01	1N4003
D1309	48S40477U01	1N4003

Symbol No.	Part No.	Description
D1310	48S40477U01	1N4003
D7305	48T52198F01	1S2462
or	48T52198F02	1S2463
D7306	48T52198F01	1S2462
or	48T52198F02	1S2463
D7307	48T52198F01	1S2462
D7308	48T52198F01	1S2462
D7379	48T51117F01	1S1553
D7380	48T51117F01	1S1553
D8303	48T43982F01	0A95
ZD1303	48T52739F78	Zener, HZ15-3
or	48T56372F59	Zener, RD16E-B1
ZD1304	48T52739F78	Zener, HZ15-3
or	48T56372F59	Zener, RD16E-B1
ZD1305	48T52739F76	Zener, HZ15E-1
or	48T56372F57	Zener, RD15-B2
ZD1307	48T52740F09	Zener, HZ12C-3
or	48T56372F57	Zener, RD15E-B2
ZD7309	48T52741F07	Zener, HZ6C-1L
ZD7310	48T52741F07	Zener, HZ6C-1L
ZD8301	48T52739F41	Zener, HZ6C-2
or	48T56372F29	Zener, RD6.2E-B2
ZD8302	48T52739F41	Zener, HZ6C-2
or	48T56372F29	Zener, RD6.2E-B2
LD7301	48T60947F06	LED, SLH-34VR5F (Red)
LD7302	40T60947F06	LED, SLH-34VR5F (Red)
LD7309	40T60947F06	LED, SLH-34VR5F (Red)
LD7310	48T60947F06	LED, SLH-34VR5F (Red)
Capacitors		
C1301	23T67402F01	Electrolytic, 10000μF/71V
C1302	23T67402F01	Electrolytic, 10000μF/71V
C1303	23T67457F07	Electrolytic, 100μF/160V
C1304	23T67457F07	Electrolytic, 100μF/160V
C1305	23T67457F07	Electrolytic, 100μF/160V
C1306	23T67457F07	Electrolytic, 100μF/160V
C1307	23T67457F07	Electrolytic, 100μF/160V
C1308	23T67457F07	Electrolytic, 100μF/160V
C1309	23S40657F45	Electrolytic, 1μF/100V
C1310	23S40657F45	Electrolytic, 1μF/100V

Symbol No.	Part No.	Description
C1311	23S40657F45	Electrolytic, 1 μF/100V
C1312	23S40657F45	Electrolytic, 1 μF/100V
C1313	23S40657F13	Electrolytic, 47 μF/16V
C1314	23S40657F13	Electrolytic, 47 μF/16V
C1315	23S40657F13	Electrolytic, 47 μF/16V
C1316	23S40657F45	Electrolytic, 1 μF/100V
C1317	23S41059P18	Tantalum, 4.7 μF/16V
C1318	23S40657F13	Electrolytic, 47 μF/16V
C1319	23T68328F63	Electrolytic, 470 μF/50V
C1320	23S41198U51	Electrolytic, 330 μF/50V
C1321	23S40657F13	Electrolytic, 47 μF/16V
C7301	08T67344F01	Polystyrol, 100 pF
C7302	08T67344F01	Polystyrol, 100 pF
C7303	08T61642F08	Mica, 15pF/500V
C7304	08T61642F08	Mica, 15pF/500V
C7305	08T61642F20	Mica, 47 pF/500V
C7306	08T61642F20	Mica, 47 pF/500V
C7307	23S41198U31	Electrolytic, 47 μF/63V
C7308	23S41198U31	Electrolytic, 47 μF/63V
C7309	08T61642F20	Mylar, 47 pF
C7310	08T61642F20	Mylar, 47 pF
C7313	08T61642F12	Mica, 22 pF/500V
C7314	08T61642F12	Mica, 22 pF/500V
C7315	23T61177F03	Electrolytic, 47 μF/25V
C7316	23T61177F03	Electrolytic, 47 μF/25V
C7317	08T68632F25	Polyester, 0.1 μF/50V
C7318	08T68632F25	Polyester, 0.1 μF/50V
C7319	08T52448F01	Polypropylene, 330 pF
C7320	08T52448F01	Polypropylene, 330 pF
C7321	23S40657F09	Electrolytic, 220 μF/10V
C7322	23S40657F09	Electrolytic, 220 μF/10V
C7323	23S40657F20	Electrolytic, 47 μF/25V
C7324	23S40657F20	Electrolytic, 47 μF/25V
C8301	23S40657F28	Electrolytic, 1 μF/50V
C8302	23S40657F27	Electrolytic, 0.47 μF/50V
C8303	23S40657F13	Electrolytic, 47 μF/16V
C8304	23T42477F38	Electrolytic, (BP) 33 μF/16V
C8305	23S41198U54	Electrolytic, 470 μF/6.3V

Symbol No.	Part No.	Description
Resistors		
R1301	06T00005L85	Metal Film, 6.8K ohm 1W
R1302	06T00005L85	Metal Film, 6.8K ohm 1W
R7301	06T00013L57	Carbon Film, 470 ohm 1/3W
R7302	06T00013L57	Carbon Film, 470 ohm 1/3W
R7303	06T00014L22	Carbon Film, 220K ohm 1/3W
R7304	06T00014L22	Carbon Film, 220K ohm 1/3W
R7305	06T00018L11	Carbon Film, 75K ohm 1/2W
R7306	06T00018L11	Carbon Film, 75K ohm 1/2W
R7313	06T00018L14	Carbon Film, 100K ohm 1/2W
R7314	06T00018L14	Carbon Film, 100K ohm 1/2W
R7327	06T00018L04	Carbon Film, 39Kohn 1/2W
R7328	06T00018L04	Carbon Film, 39Kohm 1/2W
R7335	06T67397F01	Metal Film, 0.22 ohm x 2 5W
R7336	06T67397F01	Metal Film, 0.22 ohm x 2 5W
R7343	06T00013L41	Carbon Film, 100 ohm 1/3W
R7344	06T00013L41	Carbon Film, 100 ohm 1/3W
R7345	06T00007L67	Metal Film, 1.2K ohm 2W
or	06T55179F67	Metal Film, 1.2K ohm 2W
R7346	06T00007L67	Metal Film, 1.2K ohm 2W
or	06T55179F67	Metal Film, 1.2K ohm 2W
R7347	06T00005L17	Metal Film, 10 ohm 1W
or	06T55177F17	Metal Film, 10 ohm 1W
R7348	06T00005L17	Metal Film, 10 ohm 1W
or	06T55177F17	Metal Film, 10 ohm 1W
R7349	06T00007L17	Metal Film, 10 ohm 2W
or	06T55179F17	Metal Film, 10 ohm 2W
R7350	06T00007L17	Metal Film, 10 ohm 2W
or	06T55179F17	Metal Film, 10 ohm 2W
R8315	06T00007L83	Metal Film, 5.6K ohm 1W
or	06T55177F83	Metal Film, 5.6K ohm 1W
R8316	06T00007L69	Metal Film, 1.5K ohm 2W
or	06T55179F69	Metal Film, 1.5K ohm 2W
VR7301	18C41732G06	Variable, 10K ohm
VR7302	18C41732G06	Variable, 10K ohm

Protect P.C. Board

Transistors		
Q7371	48S43525F03	2SC1815-GR
or	48S44578J01	2SC945L-P
Q7372	48S43525F03	2SC1815-GR
or	48S44578J01	2SC945L-P
Q7373	48T51118F02	2SA1015-GR
or	48T40081T03	2SA733-P

Symbol No.	Part No.	Description
Q7374	48T51118F02	2SA1015-GR
or	48T40081F03	2SA733-P
Diodes		
D7371	48T51117F01	1S1553
or	48T52198F01	1S2462
or	48T52198F02	1S2463
D7372	48T51117F01	1S1553
or	48T52198F01	1S2462
or	48T52198F02	1S2463
D7373	48T51117F01	1S1553
or	48T52198F01	1S2462
or	48T52198F02	1S2463
D7374	48T51117F01	1S1553
or	48T52198F01	1S2462
or	48T52198F02	1S2463
D7375	48T51117F01	1S1553
or	48T52198F01	1S2462
or	48T52198F02	1S2463
D7376	48T51117F01	1S1553
or	48T52198F01	1S2462
or	48T52198F02	1S2463
D7377	48T51117F01	1S1553
or	48T52198F01	1S2462
or	48T52198F02	1S2463
D7378	48T51117F01	1S1553
or	48T52198F01	1S2462
or	48T52198F02	1S2463
Capacitors		
C7371	08T42081U27	Polystyrol, 1200pF
C7372	08T42081U27	Polystyrol, 1200pF
C7373	08T42081U27	Polystyrol, 1200pF
C7374	08T42081U27	Polystyrol, 1200pF

Symbol No.	Part No.	Description
Function/LED P.C. Board		
LED		
LD8401	48T60947F05	LED, SLH-34VR3F (MM) (Red)
LD8402	48T60947F05	LED, SLH-34VR3F (MC) (Red)
LD8403	48T60947F04	LED, SLH-34MG3F (Phone) (Grn)
LD8404	48T60947F04	LED, SLH-34MG3F (Phone) (Grn)
LD8405	48T60947F04	LED, SLH-34MG3F (Phone) (Grn)
LD8406	48T60947F04	LED, SLH-34MG3F (Tuner) (Grn)
LD8407	48T60947F04	LED, SLH-34MG3F (Tuner) (Grn)
LD8408	48T60947F04	LED, SLH-34MG3F (Tuner) (Grn)
LD8409	48T60947F04	LED, SLH-34MG3F (CD) (Grn)
LD8410	48T60947F04	LED, SLH-34MG3F (CD) (Grn)
LD8411	48T60947F04	LED, SLH-34MG3F (CD) (Grn)
LD8412	48T60947F04	LED, SLH-34MG3F (Tape 2) (Grn)
LD8413	48T60947F04	LED, SLH-34MG3F (Tape 2) (Grn)
LD8414	48T60947F04	LED, SLH-34MG3F (Tape 2) (Grn)
LD8415	48T60947F04	LED, SLH-34MG3F (Tape 1) (Grn)
LD8416	48T60947F04	LED, SLH-34MG3F (Tape 1) (Grn)
LD8417	48T60947F04	LED, SLH-34MG3F (Tape 1) (Grn)
LD8418	48T60947F04	LED, SLH-34MG3F (AV1, 2/AUX) (Grn)
LD8419	48T60947F04	LED, SLH-34MG3F (AV1, 2/AUX) (Grn)
LD8420	48T60947F04	LED, SLH-34MG3F (AV1, 2/AUX) (Grn)
LD8421	48T60947F05	LED, SLH-34VR3F (AV) (Red)
LD8422	48T60947F05	LED, SLH-34VR3F (AV) (Red)
LD8423	48T60947F05	LED, SLH-34VR3F (AV) (Red)

Symbol No.	Part No.	Description
Function P.C. Board		
Switch		
S8411 ~ 8417	40T67390F01	Push (Phone, Tuner, CD, Tape 2, Tape 1, AV/AUX 2, AV/AUX 1)
Volume		
VR8402	18T67392F01	K121MO 250KMW (Balance)
MM/MC P.C. Board		
Diodes		
D8501	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D8502	48T51582F01	MA-150
or	48T51881F01	DS442-BT
Switch		
S8501	40T67441F01	Switch Push SUFR512 (Cartridge)
AV Monitor P.C. Board		
Transistors		
Q9801	48S43525F05	2SC1815-Y, GR
Q9802	48S43525F05	2SC1815-Y, GR
Q9803	48T51118F01	2SA1015-Y
Q9804	48S47729F03	FET, 2SK117-Y
Q9805	48S43525F05	2SC1815-Y, GR
Q9806	48S43525F05	2SC1815-Y, GR
Q9807	48S43525F05	2SC1815-Y, GR
Q9808	48T51118F01	2SA1015-Y
Q9809	48S47729F03	FET, 2SK117-Y

Symbol No.	Part No.	Description
Diodes		
D1801	48S40477U01	1N4003
D1802	48S40477U01	1N4003
D9801	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D9802	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D9803	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D9804	48T51582F01	MA-150
or	48T51881F01	DS442-BT
Relays/Jack		
RL9801	80B42571P03	G2E 12V
RL9802	80B42571P03	G2E 12V
J9801	09T67440F01	Jack, Plate Phone (AV1, AV2)
Capacitors		
C1801	08T52714F21	Ceramic 0.047 μF
C1802	23S40657F52	Electrolytic 220 μF/16V
C9801	23S40657F52	Electrolytic 220 μF/16V
C9802	23S41198U41	Electrolytic 220 μF/16V
C9804	23S40657F08	Electrolytic 100 μF/10V
C9805	08S44505P36	Ceramic 91 pF
C9807	23S40657F52	Electrolytic 220 μF/16V
C9808	23S40657F52	Electrolytic 220 μF/16V
C9851	08T67344F25	Polystyrol 1000 pF
C9852	08T67344F25	Polystyrol 1000 pF
AV Terminal P.C. Board		
Jack		
J9811	09T67439F01	Headphone (AV-1, AV-2)

Symbol No.		Part No.	Description
Front/AUX P.C. Board			
Jacks/Switch			
J9861		09T67396F01	Plate Phone (Front AV/AUX AUDIO)
J9862		09T67396F01	Plate Phone (Front AV/AUX AUDIO)
J9863		09T67396F01	Plate Phone (Video)
S9861		40T67387F01	Switch, Push SUL121A (AV/AUX, Front/Rear)
Fuse P.C. Board			
C1001	■	08T57437F09	Capacitor, Ceramic 0.01 uF
C1001	★	08T57437F09	Capacitor, Ceramic 0.01 uF
C1001	▲	08T57437F09	Capacitor, Ceramic 0.01 uF
F1901		65T42077U24	Fuse, T-6.3A
F1901	■	65T42077U24	Fuse, T-6.3A
F1902	▲	65T42077U24	Fuse, T-6.3A
F1902	■	65T42077U24	Fuse, T-6.3A
F1903	▲	65T42077U06	Fuse, T-100mA
F1903	■ ▲	65T42077U06	Fuse, T-100mA
F1904		65T42077U06	Fuse, T-100mA
F1904	■	65T42077U06	Fuse, T-100mA
F1905	▲	65T42077U16	Fuse, T-1A
F1905	■	65T42077U16	Fuse, T-1A
F1906	▲	65T42077U15	Fuse, T-800mA
F1906	■ ▲	65T42077U15	Fuse, T-800mA
Miscellaneous			
J1001	●	09T67405F01	Outlet, AC
J1001	○	09T67405F02	Outlet, AC
J1002	■	09T67405F01	Outlet, AC
J1002	○	09T67405F02	Outlet, AC
J4701	★	09T66672F01	Headpnone Jack
J7351		09T60544F01	Terminal, Speaker
J9802		09T67438F01	Plate, Phone Jack (Video Monitor)
LD8611		48T60947F05	LED, SLH-34VR3 (Red) (Tone)
LD8612		48T60947F05	LED, SLH-34VR3F (Red) (Pre-Heating)

Symbol No.		Part No.	Description
P1001	●	28T67434F01	Power AC Cord
P1001	○	28T55335F01	Power AC Cord
P1001	■	28T43812P02	Power AC Cord
P1001	▲	28T68132F01	Power AC Cord
P1001	★	28T43812P02	Power AC Cord
Q4901		65T00091L01	Vacuum Tube (6CG7)
Q4902		65T00091L01	Vacuum Tube (6CG7)
R8401		06T00013L57	Res., Carbon 470 ohm 1/3W
R8402		06T00013L57	Res., Carbon 470 ohm 1/3W
S8401 ~ 8407		40T67391F01	Switch, Push (Phone, Tuner, CD, AV, Tape 2/Tape 1, AV-2/AV-1, OFF)
T1001	●	25T67380F01	Power Transformer
T1001	○	25T69008F01	Power Transformer
T1001	■	25T68576F01	Power Transformer
T1001	▲	25T70937F01	Power Transformer
T1001	★	25T68576F01	Power Transformer
T1002	●	25T68578F02	Power Transformer
T1002	○	25T68578F03	Power Transformer
T1002	■	25T68578F01	Power Transformer
T1002	▲	25T68578F05	Power Transformer
T1002	★	25T68578F01	Power Transformer
VR8401		18T67393F01	Variable Res., 100K ohm (Volume Control)
C1001	●	08T57437F09	Capacitor, Ceramic 0.01 uF
C1001	○	08T57437F09	Capacitor, Ceramic 0.01 uF

Note: ● : For JK model only, ○ : For EZ model only, ■ : For SK model only,
▲ : For SG model only, ★ : For SH model only, Others: Common

Destination's Parts List

Symbol No.	Description	POWER SOURCE				
		JK 100V	EZ 120V	SK 220V	SG 240V	SH 220V
		Korea	Taiwan	West Germany	England/ Australia	Hong Kong
31	Holder, Fuse	09T51960F01	09T51960F01	09T51410F01	09T51410F01	09T51960F01
70	Cover, Rear	15C67324F05	15C67324F05	15C67324F06	15C67324F06	15C67324F06
81	Bush, Cap	43T53136F01	43T53136F01	Not Used	Not Used	Not Used
89	Assembly, Fuse P.C. Board	Not Used	Not Used			
90	Bracket, Fuse P.C. Board	Not Used	Not Used	07A69038F01	07A69038F01	07A69038F01
91	Label, Fuse	Not Used	Not Used	54B62266F41	54B62266F41	Not Used
92	Label, Fuse	Not Used	54B62266F06	54B62266F30	54B62266F30	Not Used
93	Label, Fuse	Not Used	Not Used	54B62266F31	54B62266F31	Not Used
T1001	Trans, Power	25T67380F01	25T69008F01	25T68576F01	25T70937F01	25T68576F01
T1002	Trans, Power	25T68578F02	25T68578F03	25T68578F01	25T68578F05	25T68578F01
J1001	Outlet, AC	09T67405F01	09T67405F02	Not Used	Not Used	Not Used
J1002	Outlet, AC	09T67405F01	09T67405F02	Not Used	Not Used	Not Used
C1001	Capacitor, Ceramic	08T57437F09	08T57437F09	08T57437F09	08T57437F09	08T57437F09
P1001	AC Power Cord	28T67434F01	28T55335F01	28T43812P02	28T68132F01	28T43812P02
S1701	Switch, Power	40T61963F02	40T61963F02	40T68579F01	40T68579F01	40T68579F01
F1701	Fuse	65T55050F05	65T52486F13	65T42077U13	65T42077U13	65T55050F05
F1702	Fuse	65T55050F19	65T52486F41	65T42077U22	65T42077U22	65T55050F19
F1901	Fuse	Not Used	Not Used	65T42077U24	65T42077U24	Not Used
F1902	Fuse	Not Used	Not Used	65T42077U24	65T42077U24	Not Used
F1903	Fuse	Not Used	Not Used	65T42077U06	65T42077U06	Not Used
F1904	Fuse	Not Used	Not Used	65T42077U06	65T42077U06	Not Used
F1905	Fuse	Not Used	Not Used	65T42077U16	65T42077U16	Not Used
F1906	Fuse	Not Used	Not Used	65T42077U15	65T42077U15	Not Used
	Label, Serial No.	54B42124G08	54B57610F13	54A57610F11	54B57610F10	54B42124G08
	Label, Serial No.	Not Used	Not Used	Not Used	Not Used	54B57610F11
	Label, Safety	Not Used	Not Used	54B60909F09	Not Used	Not Used
	Label, Volt	Not Used	Not Used	54B44257U01	Not Used	Not Used

Cabinet Assembly Parts List

NOTE: ※ The parts whose parts numbers are not entered will not be supplied.

Symbol No.		Index	Part No.	Description
1			03S63857F01	Screw, Tappine (M4 x 10)
2			04A65640F04	Washer, Fiber (M4)
3		1-A	15D67323F01	Cover, Top
4		3-A	01V69100F72	Assembly, Front Panel
5		4-A	01V68500F35	Assembly, Front Escutcheon
6			03S40018G08	Screw, Tapping (M3 x 8)
7		5-A	41A68570F01	Spring, Volume
8			36B67337F01	Knobs, Tone Control
9		2-A	43A68460F01	Bushing
10			05B41635J04	Rivet, Bush
11			※	Shield, Power Switch
12			03S40012G98	Screw, Tapping (M3 x 8)
13			14S53017F64	Cover, Insulator
14		4-A	36B67336F01	Knob, Volume Control
15		3-A	36A67330F01	Switch, Push (Power)
16		3-A	36A67331F01	Button, Push (Speaker Select)
17		4-A	※	Tone/LED P.C. Board
18			36A67333F01	Switch, Push
19		4-C	15A69033F01	Guide, Volume
20		4-B	※	Headphone Jack MTG P.C. Board
21		5-B	14S58462F59	Cover, Insulator
22		3-B	※	Chassis, Front
23		3-B	03D40014G04	Screw, W/Washer (M3 x 6)
24			03S40012G93	Screw, Tapping (M3 x 8)
25		3-B	36A67332F01	Button, Push (REC Out)
26			29C41045P05	Lug, Cord
27		4-B	36A67334F01	Button, Push (AV)
28		4-B	※	Headphone P.C. Board
29		5-B	01V68400F79	Function/LED P.C. Board
30		5-B	07B67320F01	Assembly
				Frame, LED
31	●		09T51960F01	Holder, Fuse
31	○		09T51960F01	Holder, Fuse
31	■		09T51410F01	Holder, Fuse
31	▲		09T51410F01	Holder, Fuse
31	★		09T51960F01	Holder, Fuse
32		4-B	43A67342F01	Spacer, Switch
33		2-C	※	Tone P.C. Board Assembly
34		3-C	※	Speaker Switch P.C. Board Assembly
35		5-C	※	Bottom Cover
36			75A67063F02	Leg
37			75A67064F01	Felt
38			04S40072G15	Washer, Toothed Lock, B (M4.3)
39			03S44205G28	Screw, Bind (M4 x 16)
40		3-C	※	Heat-up/Switch P.C. Board Assembly
41		1-C	07A40871F01	Bracket, Transformer
42		2-C	※	Chassis, Transformer
43		2-C	※	Shield, Tone P.C. Board
44		3-C	※	MM/MC P.C. Board Assembly
45			03S40036U01	Screw, W/Washer (M4 x 8)
46		2-D	75A68381F01	Cushion
47		3-D	※	Tube P.C. Board
48		3-D	※	REC Selector P.C. Board
49			※	Volume Control P.C. Board
50		4-D	※	Front/AUX P.C. Board Assembly
51		5-D	※	Chassis Side
52		3-D	09T64527F01	Socket, Vacuum Tube
53		4-D	※	Function P.C. Board Assembly
54			75T57059F01	Pad, Leg
55		2-E	07C67319F01	Tube Frame
56		3-E	75A67341F01	Cushion
57		4-E	75A57803F11	Cushion
58		4-E	※	Shield Plate
59		2-E	03S43997P76	Screw, Bind (M3 x 6)
60		2-E	※	AV Monitor P.C. Board Assembly
61		2-E	14A68351F01	Insulator
62		2-E	※	Speaker Terminal P.C. Board
63		2-E	※	Main P.C. Board Assembly
64		2-E	03C40121T13	Screw, W/Dual Washer (M3 x 10)
65			03D40014G32	Screw, W/Washer (M3 x 12)
66		3-E	※	Heat Sink
67			43A63128F02	Spacer, Holder
68			02B47353F02	Nut, Hex. (M3)
69		4-E	※	Support, Equalizer P.C. Board
70	●	1-F	15C67324F05	Cover, Rear
70	○	1-F	15C67324F05	Cover, Rear
70	■	1-F	15C67324F06	Cover, Rear
70	▲	1-F	15C67324F06	Cover, Rear
70	★	1-F	15C67324F06	Cover, Rear

Note: ● : For JK model only, ○ : For EZ model only, ■ : For SK model only, ▲ : For SG model only, ★ : For SH model only, Others: Common

NOTE: ※ The parts without part numbers are not supplied.

Symbol No.		Index	Part No.	Description
71		2-F	47B64899F16	Stud
72		2-F	04A40072F03	Washer, Felt (M9.2)
73		2-F	※	AV Terminal P.C. Board Assembly
74		3-F	47B64899F17	Stud
75			03C40121T05	Screw, W/Dual Washer (M3 x 8)
76		5-F	45T67442F01	Wire, Flexible
77		5-F	※	Tube (90)
78		2-F	03C40121T17	Screw, W/Dual Washer (M3 x 8)
79		4-F	※	Protect P.C. Board Assembly
80		4-F	※	Equalizer P.C. Board Assembly
81	●	1-F	43T53136F01	Bush, Cap
81	○	1-F	43T53136F01	Bush, Cap
82		1-F	43B41625J02	Holder, Cord
84		3-G	※	Wire, MTG P.C. Board
85		3-G	※	Heat Sink
86		2-G	29T66964F01	Ground Terminal
87			29A41814G01	Lug, Cord
88		4-G	03S40012G99	Screw, Tapping (M3 x 10)
89	■	1-E	※	Assembly, Fuse P.C. Board
89	▲	1-E	※	Assembly, Fuse P.C. board
89	★	1-E	※	Assembly, Fuse P.C. Board
90	■	1-E	07A69038F01	Bracket, Fuse P.C. Board
90	▲	1-E	07A69038F01	Bracket, Fuse P.C. Board
90	★	1-E	07A69038F01	Bracket, Fuse P.C. Board
91	■	1-E	54B62266F41	Label, Fuse
91	▲	1-E	54B62266F41	Label, Fuse
92	○	3-B	54B62266F06	Label, Fuse
92	■	3-B	54B62266F30	Label, Fuse
92	▲	3-B	54B62266F30	Label, Fuse
93	■	3-C	54B62266F31	Label, Fuse
93	▲	3-C	54B62266F31	Label, Fuse
94		4-C	04S40070G23	Washer, Flat (M3.3)

Symbol No.	Index	Part No.	Description

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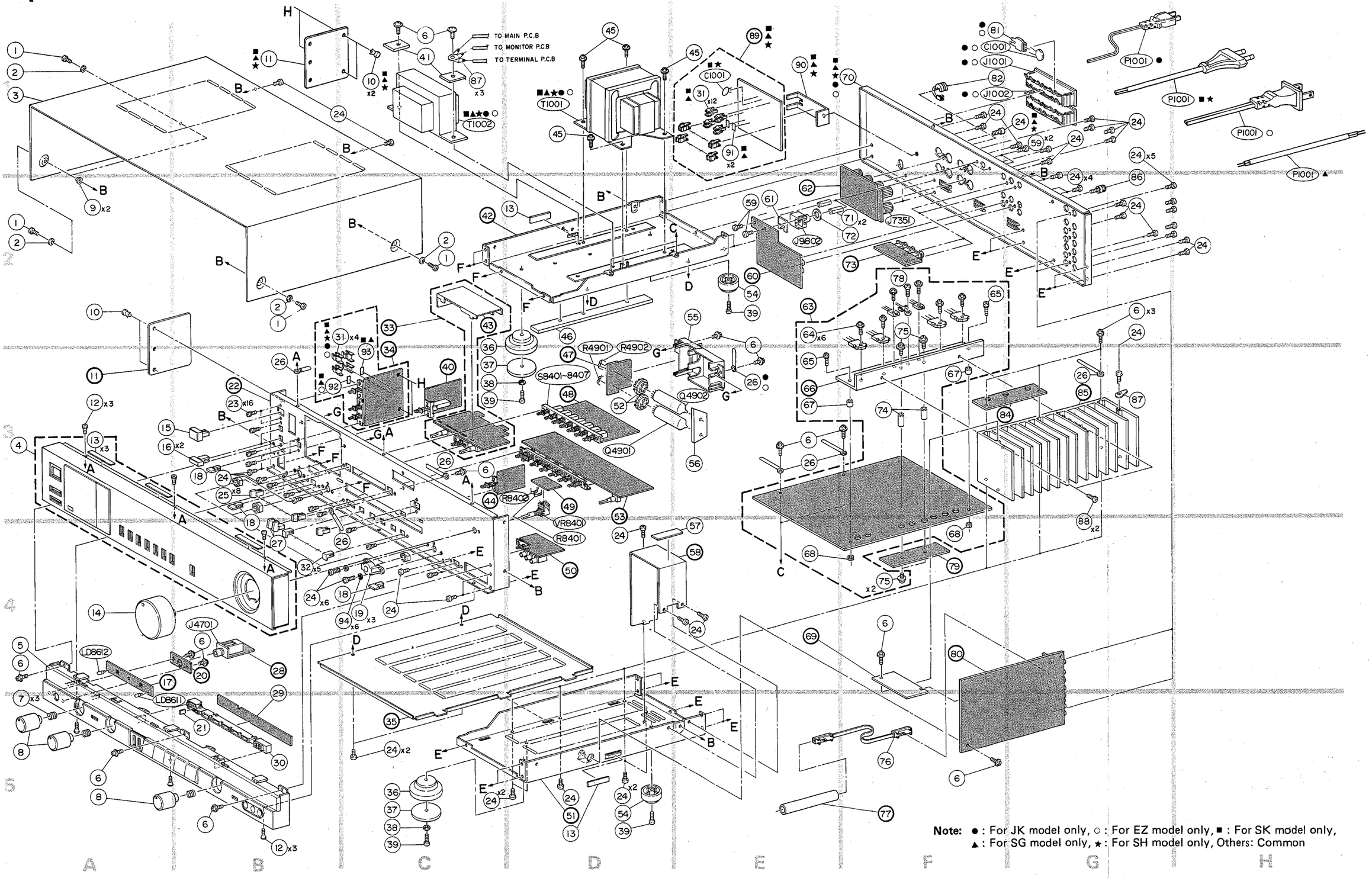
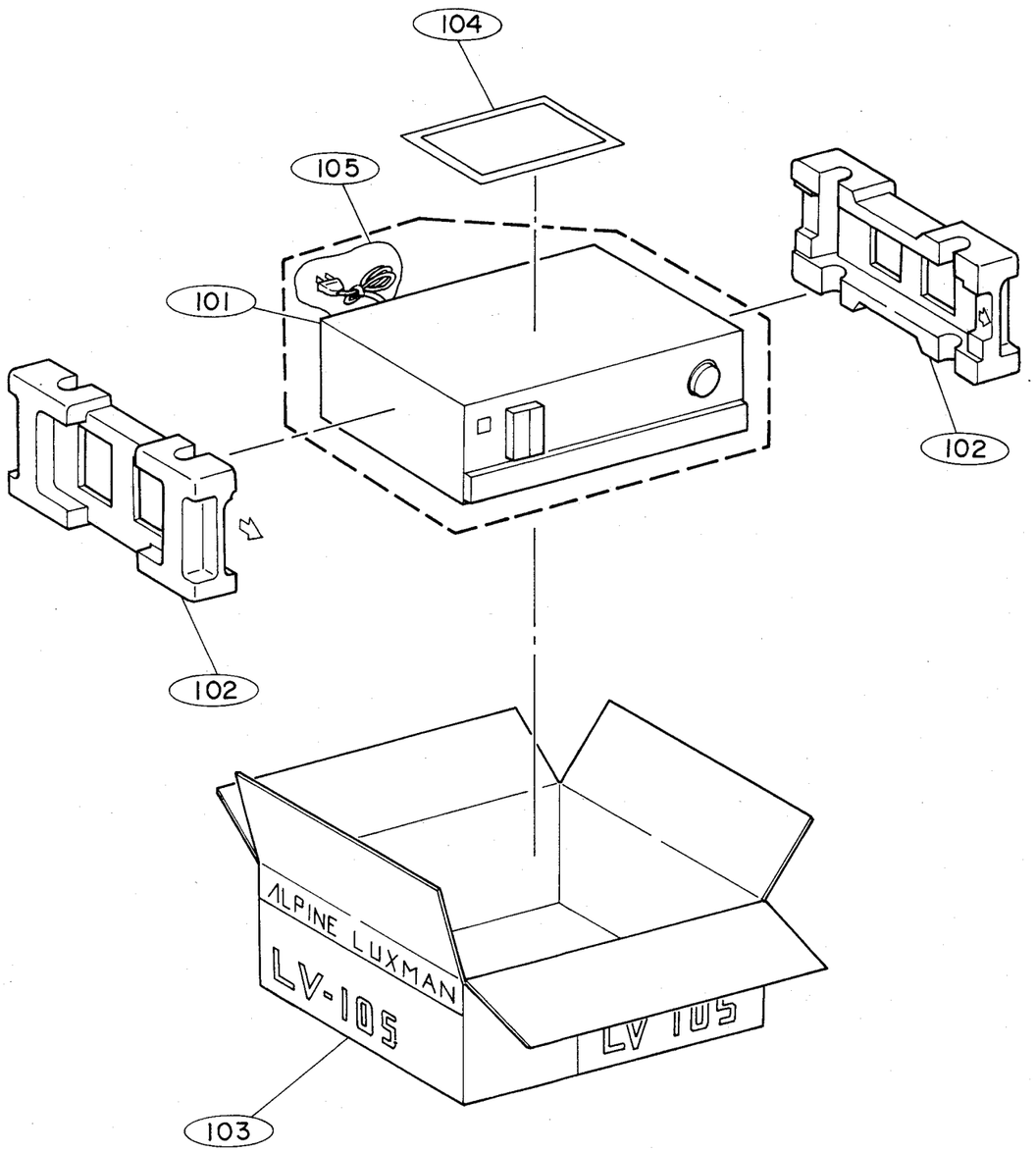
▲ : For SG model only, ★ : For SH model only, Others: Common

Exploded View (Cabinet)



Note: ● : For JK model only, ○ : For EZ model only, ■ : For SK model only, ▲ : For SG model only, ★ : For SH model only, Others: Common

Packing Method View



Packing Assembly Parts List

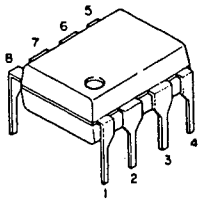
Symbol No.	Part No.	Description
101	56B40442T13	Front Frame
102	56D67465F01	Tray, Packing
103	56S60482F70	Tray, Packing (Individual)
104	68P67499F27	Owner's Manual
105	56B40230G08	Sack, Polyethylene
	Labels	
●	54B42124G08	Serial No. (Rear Cover, Packing Carton)
★	54B42124G08	Serial No. (Rear Cover)
★	54B57610F11	Serial No. (Rear Cover)
○	54B57610F13	Serial No. (Rear Cover)
■	54A57610F11	Serial No. (Rear Cover)
▲	54B57610F10	Serial No. (Rear Cover)
■	54B60909F09	Safety (Rear Cover)
■	54B44257U01	Volt (Carton, Packing)

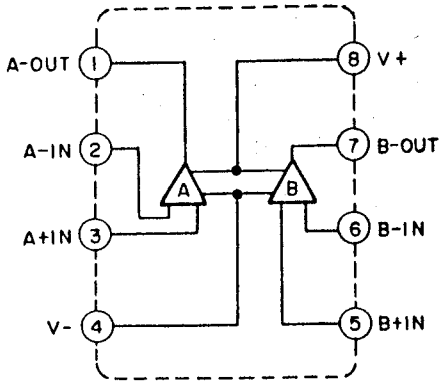
Symbol No.	Part No.	Description

Note: ● : For JK model only, ○ : For EZ model only, ■ : For SK model only,
▲ : For SG model only, ★ : For SH model only, Others: Common

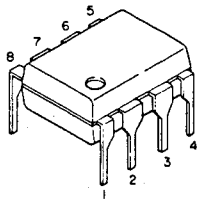
Semi-Conductor Lead Identification

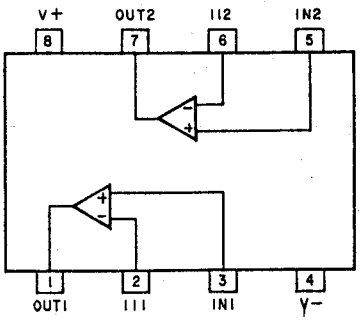
NJM2043D: IC2105



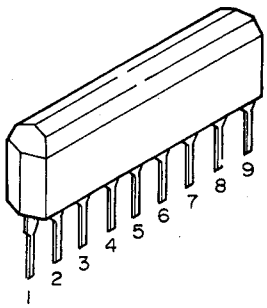


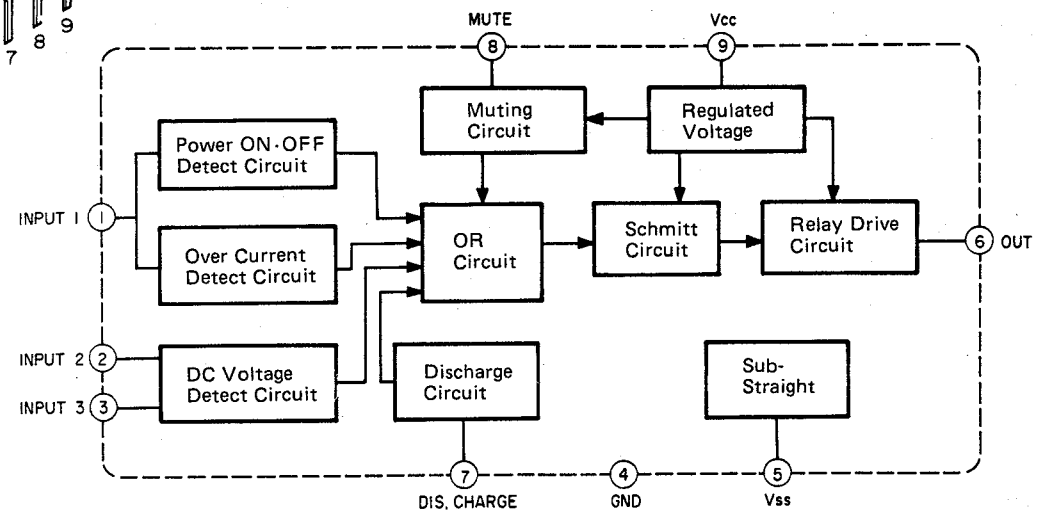
μPC4558C: IC4201



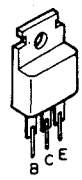


TA7317P: IC8306

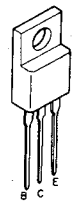




2SC2344: Q1101
2SA1011: Q1102

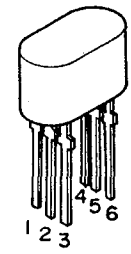


2SD1266: Q1301

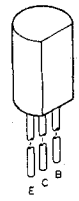


2SK240: Q2101, 2102
2SJ75: Q7301, 7302

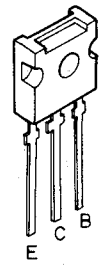
1. Source 1
2. Gate 1
3. Drain 1
4. Drain 2
5. Gate 2
6. Source 2



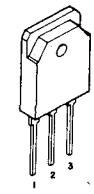
2SC2235: Q2103, 2104



2SA1360: Q7303 ∿ 7306
Q7317, 7318
2SC3423: Q7307 ∿ 7316

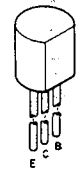


2SK405: Q7319, 7320
2SJ115: Q7321, 7322

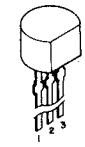


1: GATE
2: DRAIN
3: SOURCE

2SC2240: Q7323, 7324
2SC945, **2SC1815**: Q7371, 7372
2SA733, **2SA1015**: Q7373, 7374
2SA970: Q8301
2SC1815: Q8302 ∿ 8305,
Q9801, 9802, 9805,
Q9806, 9807
2SA1015: Q9803, 9808



2SK117: Q9804, 9809



1. Drain
2. Gate
3. Source

IC	IC2105
TRANSISTOR (Q)	Q2101, Q2103, Q2102, Q2104 — Q1101, Q1102 — Q9801 ~ Q9809
DIODE (D, ZD, LD)	LD2101, LD2102, D1801 — ZD1104, ZD1103 — ZD1105, ZD1106 — D9802, D9801, D9803, D9804, D1802 — LD8401 ~ LD8423

EQUALIZER P C Board

V. STABILIZER

EQ AMP

Q2101 2SK240

IC2105 1/2 NJM2043

Q1101 2SC2344

CURRENT STABILIZER

Q2103 2SC2235

V. STABILIZER

Q1102 2SA1011

Q2102 2SK240

IC2105 2/2 NJM2043

Q2104 2SC2235

TUNER CD REC PLAY REC PLAY

TAPE-1 TAPE-2

Volume Control P.C.Board

Function/LED P.C.Board

MM/MC P.C.Board

AV Monitor P.C.Board

REC PLAY REC

AV-1 AV-2

BUFFER AMP Q9801

Q9801, Q9802 2SC1815

BUFFER AMP Q9807

Q9806, Q9807 2SC1815

AV Terminal P.C.Board

V.REG

PLAY V.PLAY

Q9802 Q9806

Q9803 2SA1015 Q9808 2SA1015

Q9804 2SK117 Q9809 2SK117

RL9801 RL9802

V-MONITOR

Q9805 2SC1815

VIDEO AMP

Function P.C.Board

S8405 T2—T1

S8407 OFF S8406 AV2—AV1 S8404 AV(SOURCE)

IC4201

IC8306

Q7301,Q7317,Q7303,Q7305,Q7309 Q7311,Q7313,Q7315 Q7319,Q7321 Q7323,Q7324
Q7318,Q7302,Q7304,Q7306,Q7308,Q7310 Q7312,Q7314,Q7316 Q7320,Q7322 Q8305,Q8304
Q7307 Q1301 Q8301 Q8303 Q8302 Q4902 Q4901

Q7371, Q7373
Q7372, Q7374

D8501, D8502

LD7301 ZD7310
ZD7309 LD7302 DI310,DI302,DI301,ZD8301 D7305,D7307,LD7309 D7379 D8303 D7375
DI309,ZDI305,ZDI304,ZDI303,DI306 ZD8302 D7308,D7306,LD7310 ZDI307 D7380 DI308 DI601~DI603 D7377 D7378,D7376

Tone P.C.Board

TONE AMP

IC4201 1/2

IC4201
μPC4558C

IC4201 2/2

BASS

TREBLE

S4201

S8501

MC

D8501

D8502

MA-150x2

BALANCE

TI T2 CD TUNER PHONO

S8415 S8414 S8413 S8412 S8411

S8405
T2—TI

S8404 AV(SOURCE) S8403 CD S8402 TUNER S8401 PHONO

REC,Selector P.C.Board

MAIN P.C.Board

Q7303~7306 Q7317
2SA1360 2SA1360

Q7307~7310
2SC3423

Q7311~7316
2SC3423

CURRENT STABILI-ZER

Q7301 2SJ75

Q7305

Q7303

Q7307

Q7309

DIFFERENTIAL AMP

Q7318 2SA1360

Q7302 2SJ75

Q7304

Q7306

Q7308

Q7310

Q1301 2SD1266

V-STABILIZER

DI310 IN4003

DI309 IN4003

DI302 (6A4)

DI301 (50F20)

IC8306
TA7317P

PROTECTION CIRCUIT

Q7311

BUFFER AMP

POWER AMP

Q7319 2SK405

PROTECTION CIRCUIT

Q7323,Q7324 2SC2240

Q7313

Q7315

Q7321 2SJ115

Q7323

BIAS CIRCUIT

CURRENT STABILIZER

Q7312

Q7320 2SK405

Q7324

Q7314

Q7316

Q7322 2SJ115

Q8301 2SA970

PROTECTION CIRCUIT

Q8303

Q8302 2SC1815

HEAT DETECTION CIRCUIT

Q8304

Q8305

2SC1815x2

MUTING

POWER ON/OFF DET. CIRCUIT

OVER VOLTAGE DET. CIRCUIT

± VOLTAGE DET CIRCUIT

MUTING CIRCUIT

OR CIRCUIT

DISCHARGE CIRCUIT

VOLTAGE REGULATOR CIRCUIT

SCHUNITT CIRCUIT

RELAY DRIVE CIRCUIT

SUBSTRATE

RL8301

Front/AUX P.C.Board

S9861

J9862 PLAY J9861

V-PLAY J9863

Tube P.C.Board

Q4902 6CG7(GE)

Q4901 6CG7(GE)

Protect P.C.Board

CURRENT LIMITER CIRCUIT

Heat-UP/Switch P.C.Board

S1701 ON

T1002

T1001

IC4201

IC83

02

Q7301,Q7317,Q7303,Q7305,Q7309 Q7311,Q7313,Q7315 Q7319,Q73
Q7318,Q7302,Q7304,Q7306,Q7308,Q7310 Q7312,Q7314,Q7316 Q732
Q7307 Q1301 Q8301 Q8303 Q8302 Q4902

5
6
D9804 D1802

LD8401 ~ LD8423

D8501, D8502

LD7301 ZD7310
ZD7309 LD7302 D1310,D1302,D1301,ZD8301 D7305,D7307,LD7309
D1309,ZD1305,ZD1304,ZD1303,D1306 ZD8302 D7308,D7306,LD7310 ZD1307

IZER

Q1101
2SC2344

Q1102
2SA1011

IZER

FFER AMP
9807

Volume Control P.C.Board

Function/LED P.C.Board

MM/MC
P.C.Board

Tone P.C.Board

TONE AMP

IC4201 1/2

IC4201
μPC4558C

IC4201 2/2

BASS

TREBLE

BALANCE

MAIN P.C.Board

Q7303~7306 Q7317
2SA1360 2SA1360

Q7307~7310
2SC3423

Q7311~7

CURRENT STABILI-ZER

Q7301
2SJ75

Q7303

Q7305

Q7307

Q7309

BUFFER AMP

Q7311

Q7313

Q7315

BIAS CIRCUIT

DIFFERENTIAL AMP

Q7318
2SA1360

Q7302
2SJ75

Q7304

Q7306

Q7308

Q7310

Q7312

Q7314

Q7316

V.STABILIZER

Q1301
2SD1266

PROTECTION CIRCUIT

Q8301
2SA970

Q8303

Q8302

Q8302,Q830
2SC1815

HEAT DETECT CIRCU

MUTING CIRCUIT

POWER ON/OFF DET. CIRCUIT

OVER VOLTAGE DET. CIRCUIT

± VOLTAGE DET CIRCUIT

OR CIRCUIT

DISCHARGE CIRCUIT

IC8306
TA7317P

PROTECTION CIRCUIT

Function P.C.Board

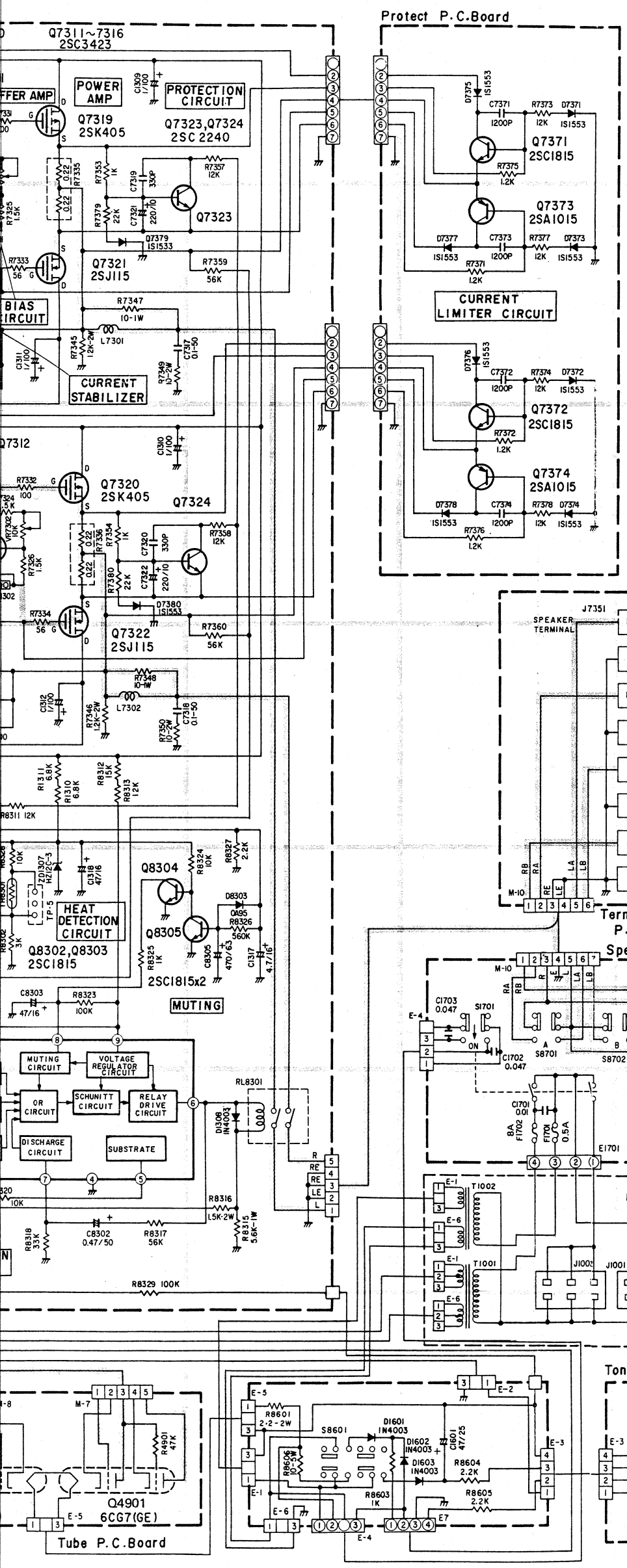
REC,Selector P.C.Board

Front/AUX
P.C.Board

Q4902
6CG7(GE)

Tube

		IC8306			
,Q7315 Q7319,Q7321		Q7323,Q7324		Q7371, Q7373	
2,Q7314, Q7316 Q7320,Q7322		Q8305,Q8304		Q7372, Q7374	
Q4902	Q4901				
09	D7379	D8303	D7375	D7379	
306,LD7310 ZD1307	D7380	DI308	DI601 ~ DI603 D7377	D7371, D7373 D7378, D7376	D7380, D7372, D7374 LD8612, LD8611



IC2105

1	2	3	4	5	6	7	8
0V	15.0V	15.0V	-20.0V	15.0V	15.0V	0V	20.0V

IC4201

1	2	3	4	5	6	7	8
0V	0V	0V	-15.0V	0V	0V	0V	15.0V

IC8306

1	2	3	4	5	6	7	8	9
0.75V	0V	0V	0V	-0.75V	1.0V	0V	1.4V	3.1V

	Q1101	Q1102	Q1301	Q2103 Q2104	Q7303 Q7304	Q7305 Q7306	Q7307 Q7308
E	24.5V	-24.5V	14.0V	-23.3V	-5.4V	-5.4V	114V
B	25.1V	-25.1V	14.6V	-22.7V	-6.0V	-6.0V	-113.4V
C	45.0V	-45.0V	35.5V	0.07V	-110V	-110V	-110V

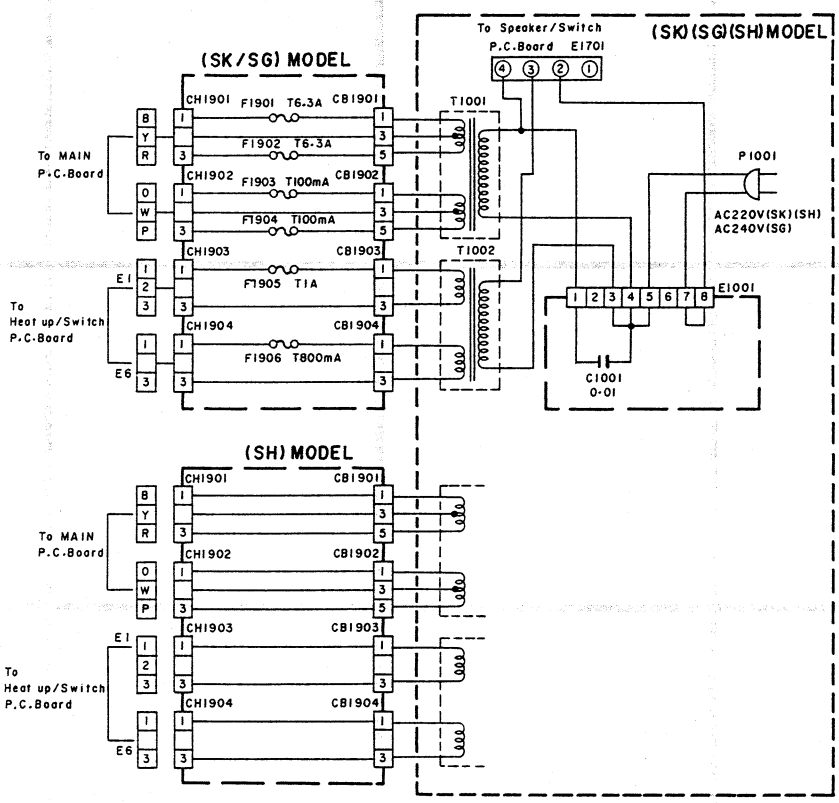
	Q7309 Q7310	Q7311 Q7312	Q7313 Q7314	Q7315 Q7316	Q7317 Q7318	Q7323 Q7324	Q8301
E	-114V	1.4V	-1.6V	-5.1V	113.0V	0V	52.0V
B	-113.4V	2.0V	-1.0V	-50.4V	113.6V	0V	52.0V
C	-113V	52.0V	1.4V	-1.6V	-0.3V	52.0V	-0.75V

	Q8302	Q8303	Q8304	Q8305	Q9801 Q9807	Q9802 Q9806	Q9803 Q9808
E	1.4V	1.4V	0V	0V	8.0V	7.4V	7.6V
B	1.4V	2.0V	0.6V	0V	8.6V	8.0V	7.0V
C	12.0V	12.0V	0V	1.4V	14.0V	8.6V	0V

Q9805	
E	1.2V
B	1.8V
C	9.0V

	Q2101 Q2102	Q7301 Q7302	Q7319 Q7320	Q7321 Q7322	Q9804 Q9809
S	0.07V	-0.3V	0.022V	-0.022V	0.12V
G	0V	0V	1.4V	-1.6V	0V
D	15.0V	-5.4V	52.0V	-52.0V	0.7V

※	SK/SG	JK	EZ	SH
F1701	T-500mA	0.5A	0.5A	0.5A
F1702	T-4A	8A	6A	8A



NOTES:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1{,}000{,}000}$
3. Voltage values are reference values measured to chassis ground at no signal with rated voltage applied, using a digital voltmeter.